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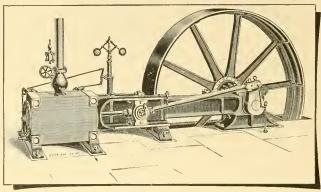


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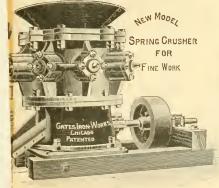
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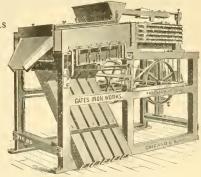
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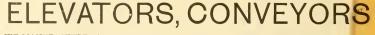
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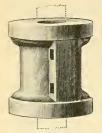
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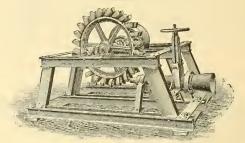
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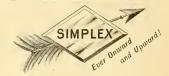
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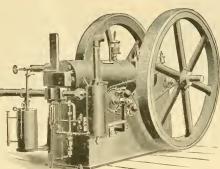
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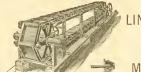


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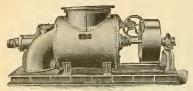
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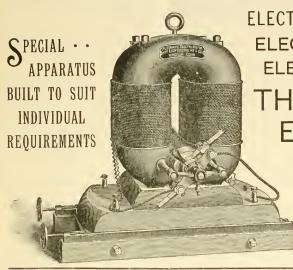
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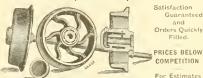
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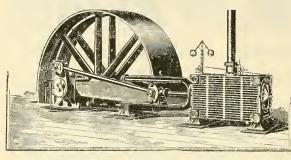
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#### INTRODUCTORY AND EXPLANATORY

In presenting the first volume of The MINING DIRECTORY AND REFERENCE BOOK to the public, we beg to state that its publication was undertaken from a belief that the mining and kindred interests of the country were of sufficient importance to warrant such a work, and that a publication of the kind, besides being of especial value to those directly interested, would give the general public an insight into the extent and importance of the great mining industry of America, and would not fail to meet with due appreciation. The many kind words of encouragement and the substantial patronage received fully demonstrate its present need and afford abundant assurance of future success.

The task of compiling the work has been much greater and more costly than anticipated, having required the labor of a large office and field force for twelve months, instead of six, as at first contemplated; and we feel confident that the detailed information herein given will be duly appreciated by our patrons, and especially so by those who have ever undertaken to secure simply a list of names of mining companies and operators.

Great care has been taken to secure accuracy in the compilation, and no pains or expense has been spared to obtain details from all mining companies and operators, blast furnaces, smelters and reduction-works, repeated efforts having been made to that end.

As no name appears in the regular lists unless we have direct information in regard to same on file in our office, supplementary lists are given of those whom we have good reason to believe exist at points named, but who have neglected to furnish the detailed information desired. We have found a large number of alleged mining companies existing solely on paper, having no claim to the name, so far as owning or developing mining properties is concerned, and we have endeavored to leave all such out of the lists, as it is the intention to list only those actively engaged in mining or in a fair way to become so in the near future. As with mining companies, so with blast furnaces, smelters and the other lists given, we have sought to list only companies or individuals actively engaged in the various industries.

The lists of mining engineers, assayers, etc., and of attorneys, contain only the names of persons who have been recommended to us as being reliable and capable in their professions.

The laws have received more than ordinary attention, and will, no doubt, prove one of the most valuable features of the book. The mining codes of the United States, Canada, British Columbia and Mexico are given in full, that of Mexico having been translated from the original Spanish by a member of the Directory staff, while the digests of the statutes of the states and territories of the United States and the Canadian provinces have been prepared expressly for the work by resident attorneys of known ability.

The classified list of machinery and supply houses is intended to benefit not only our advertisers, but subscribers as well, being arranged in such a manner as to afford a means of ready reference for persons contemplating the purchase of machinery or supplies. In

this connection we will state that it has been our aim to insert only appropriate advertisements of honorable, fair-dealing manufacturers and dealers, it being our intention to debar all objectionable or irrelevant advertisements from the pages of The Directory.

For a full and complete understanding of the lists it will be well always to read the heading at beginning of list or top of page, which explains the contents of the list following, as per example:

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AND S	HIPPING	POINT.	
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The above shows sample from the Colorado list of gold and silver mines. In the first column is shown location of mine, which is Tin Cup, Gunnison county. "Ry. St. Elmo 776" shows that the shipping station is St. Elmo, on railway or water-route 776, which, by reference to the Index of Railways and Water-Routes, on page 33, is found to be the Union Pacific railway. While there may be other railways or water-routes at points named than those indicated, only the ones on which the shipping is done is here given. The "(9 m.)" indicates distance of mine from shipping point, "m." being abbreviation for miles. In the second column is given the name of the company or individual; location of principal office when different from that of the mine; product; kind of mine, whether shaft, tunnel, slope or open pit; annual output of ore in tons of 2,000 pounds; kind of ore; kind of power used; number of stamps, etc., and name of mine superintendent. Where the word "(local)" occurs, it indicates that party does no shipping. The other lists will be understood by reference to the headings.

It is intended to issue The MINING DIRECTORY annually, and we will feel under obligations to those of our patrons who may be disposed to furnish us information in regard to any matter deserving a place in the book, as it is our desire to make the work a standard guide and reference book for the mining interests of the country.

In conclusion, we tender our sincere thanks for the many kindnesses shown by government officials and individuals connected with mining interests, for valuable information furnished, and to our many patrons for the generous support given the work, which we fully appreciate, and of which we will strive to merit a continuance.

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CHICAGO, Ill., U. S. A., December, 1892.

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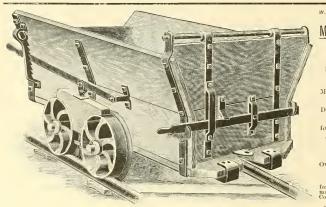
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Arkanssa Midland Ry. Southern Express.
Arkanssa Midland Ry. Southern Express.
Arkanssa Midland Ry. Adams Express.
Arkanssa Midland Ry. Southern Express.
Arkanska Midland Ry. Ry. Adams Express.
Arkanska Midland Ry. Adams Express.
Arkanska Midland Ry. Southern Express.
Asheville & Spartanburg Ry.
Atchison, Toocka & Sant, Fe Ry. Wells, Fargo & Co.'s Express.
Manta & Fjorda Ry. Southern Express.
Manta & Fjorda Ry. Southern Express. Brantford, Waterloo & Lake Erie Ry. American Express. Brantford, Waterloo & Lake Eric Ry. American Express. Brazos Ruce.
Breekmrdge Co. Ry. Adams Express.
Brigkton & saco River Ry. American Express.
Brinkley, Helena & Indian Bay Ry. Pacific and Southern Express.
Bristol, Elizabethton & N. Carolina Ry. Southern Express.
Bristol, Elizabethton & S. Maric Ry. Southern Express. 80. Brockville. Westpole & Same Express.
Brooklyn, Bath & West End Ry. New York Local Express.
Brooklyn, Brighton Beach Ry. New York Local Express.
Brunsweck & Western Ry. Southern Express.
Butlaue & Moneton Ry. Dominnon Express.
Butlaue, Richester & Pittsburg Ry. American Express.
Butlaue, Richester & Pittsburg Ry. Admer Express.
Butlaue Rin, Betheforte & Rabl Engle Ry. Adams Express.
Burlington, Codar Kapids & Northern Ry. United States
Evaness. 10 83 88 Burb gton & Missouri River Ry. Wells, Fargo & Co.'s Ex-Burlington & Northwestern Ry. American Express. Burlington & Western Ry. American Express. Caldine & Northeastern Ry. Adams Express. Cald Mils Branch Ry. Adams and Camden & Allantie Express. Expresses,
Camaca Atlant e By, Canadian Express,
Camada Eastern Ry, Canadian Express,
Camada Eastern Ry, Canadian Express,
Camadian Peache Ry, Dominion and American Expresses,
Cape Brack A Vanka Valby Ry, Southern Express,
Cape Hear & Vanka Valby Ry, Southern Express,
Southwestern Express,
Southwestern Express,
Caragnet Ry, Camadian Express,
Caragnet Ry, Southern Express,
Caragnet Ry, Camadian Express,
Caragnet Ry, Southern Express,
Caragnet Ry, Camadian Express,
Caragnet Ry, Southern Expres 946 Atchison, Touckia Sant'i Fe Ry, Wells, Fargo & Co. S. Express, press, pr 9138 101 1.03 carolina, Cumberland Gap & Chicago Ry, Southern Express,
Operated by South Carolina Ry,
arolina Midhand Ry, Southern Express,
Carrabelle, Taltahassee & Gulf Ry, Southern Express,
Cartinge & Adrondack Ry, American Express,
Coperated by Philadelephila & Reading Ry,
Carskill Mounthin & Carro Ry, American Express,
Cedar Rappds & Maron Ry, Adams Express,
Central Arzona Ry, Wells, Farzo & Co. 8 Express,
Central Ry of South Carolina, Southern Express,
Central Ry of South Carolina, Southern Express,
Central Ry, of New Jernswick, Canadian Express,
Central Operation of Common Common Company of Company Control Ry,
Central Ry, of New Jernswick, Canadian Express,
Central Order of Ry, Canadian Express,
Central Common Ry, American and National Express,
Central Common Ry, American and National Express,
Central Common Ry, American and National Express,
Charleston, Giennia Ry, Southern Express,
Charleston, Savaninal Ry, Southern Express,
Charleston, Savaninal Ry, Southern Express,
Charlamoga Cumon Ry, Co. United States Express,
Chattamoga Cumon Ry, Co. Thied States Express,
Chattamoga Chonol Ry, American Express,
Chattamoga Chonol Ry, Co. Thied States Express,
Chattamoga Chonol Ry, Co. Canadian Ry, Southern Express,
Chattamoga Chonol Ry, American Express,
Chattamoga Chonol Ry, American Express,
Chattamoga Chonol Ry, Adams and Baltimer & Ohio ExPresses,
Chesapeake & Ohio Ry, Adams and Baltimer & Ohio ExPresses,
Chesapeake & Ohio Ry, Adams and Baltimer & Ohio ExPresses,
Chesapeake & Ohio Ry, Adams and Baltimer & Ohio ExPresses, 106 110 Baltimore & Ohio Southwestern Ry. Baif more & Ohio Express.
Baltimore & Potomae Ry. Adams Express.
Bangor & Fischaldin Iron Works Ry. American Express.
Bangor & Pischaldin Iron Works Ry. American Express.
Bangor & Pischaldin Iron Works Ry. American Express.
States Express.
Giperated by Towanda Ceal Co., Towanda, Pa.,
Barrel y Raifrond Co. Ry. Adams Express.
Giperated by Towanda Ceal Co., Towanda, Pa.,
Barrel Ry. American Express.
Bay of Quinte Raifway and Vastgatton Co., Canadian ExBeyer Creek Ry. Adams Express. 111 1.41 Bower ok Ry. Adams Express. Bearly & Elwood R R. Bear Lak's K Esstern Ry. American Express. Bellaire, Zamesyalle & Gueimatti Ry. Adams Express. Bellingham Bay & Beltish Columbia Ry. Work, Facto & Co.'s Express. 126 CONTRACTOR OF THE ACTION OF TH 59 61 Birmingnam, Express, Express, & Atlantic Ry., Southern Express, Birmingham & Southern Express, Black Hills & Fort Pierre Ry., Wells, Fargo & Co's Ex-Black Hills & Fort Pierre Ry. Chesapeaae & Ono Ry. Agams and faithmer's & Ono ry. Chicago, Barlington & Kansas City Ily. American Express. Chicago, Burlington & Northern Iky. American Express. Chicago, Fairchild & Educy Ily. American Express. Chicago, Fairchild & Educy Ily. American Express. 62 134 135 65-1 1 18 65 press,
Blackville, Alston & Newberry Ry. Southern Express,
Bloomsburg & Sullivan Ry. United States Express,
Bloomsburg & Sullivan Ry. Tuited States Express,
Blooton, Revere Beach & Lynn Ry. Boston Local Express,
Boston, Review Beach & Lynn Ry. Boston Local Express,
Boston & Albany Ry. American and Adams Expresses,
Boston & Albany Ry. American Express,
Bradford, Bordell & Kinzua Ry. Wells, Fargo & Co.'s ExRydross, Bradford, Bordell & Kinzua Ry.

67

73 Bradtord, Eldred & Cuba Ry. Wells, Fargo & Co.'s Ex-

press.

137 Chicago, Ft. Madison & Des Momes Ry. American Express.

138 Chicago, Iswa & Dakota Ry. American Express.

139 Chicago, Kadamazoo & Sallana Kg. American Express.

140 Chicago, Karlas City & Peyrs Ry. United States Express.

141 Chicago, Midwalk & & S. Paul Ry. American and Adams

Expresses.

142 Ch'eago, Rock Islan I & Pae fie Ry. United States Express.
 143 Chiengo, S., Pau', Main apolis & Omaha Ry. American Express.

press.
224 Diress.
235 Diress.
237 Diress.
237 Diress and Control Ry. Southern Express.
237 Diress and County Ry. Dominon Express.
237 Diress and County Ry. One of the County of the Co

114 Chicago, St. Paul & Kansas City Ry. United States Ex-Duiuth & Winnipeg Ry. Adams Express. Dunkirk, Allegheny Valley & Pittsburg Ry. American Express.

Chicago & Alton Ry. United States Express.

Chicago & Eastern Himois Ry. American Express.

Chicago & Grand Trunk Ry. National Express.

Chicago & Jowa Ry. American Express.

Chicago & Jowa Ry. American Express.

Chicago & Northern Parclic Ry. Northern Pacific Express.

Chicago & Northwestern Ry. American and United States

Expresses.

Chicago & Olio River Ry. Adams and American Expresses.

Chicago & West Michigan Ry. American Express.

Chicago & West Michigan Ry. American Express.

Chicago & Cod & Radiway Co. Ry. Adams Express.

Checiaw Cod & Radiway Co. Ry. Adams Express.

Chicago & God & Radiway Co. Ry. Adams Express.

Chicago & God & Radiway Co. Ry. Adams Express.

Chicago & Cod & Radiway Co. Ry. Adams Express. 239 Cincinnati, Hamilton & Dayton Ry. Baltimore & Ohio Ex press. Cheinnati, Jackson & Mackinaw Ry. American Express. Cineinnati, Lebanon & Northern Ry. American Express. Cineinnati, New Richmond & Ohio River Ry. Adams Ex-press.
Cinelmati Northwestern Ry. United States Express.
Cinelmati Sagmaw & Mackinaw Ry. Aational Express.
Cinelmati & Green River By. Baltimore & Oho Express.
Cinelmati & Kentucky Southern Ry. United States and
Baltimore & Oho Express Cos.
Cinelmati & Fortsmouth Valley By. Adams Express.
Cinelmati Portsmouth Valley By. Adams Express.
Cinelmati, Portsmouth Valley By.
Cinelmati, Wabash & Michigan Ry. United States Express.
Cinelmati, Wabash & Michigan Ry. United States Express. press. Cincinnati, Wheeling & New York Ry. Adams Express. Cleveland, Akron & Colimbus Ry. Adams Express. Cleveland, Cincinnati, Chicago & St. Louis Ry. Adams and Chemmati, Wheeling & New York By, Adams Express, Cleveland, Akron & Columbus By, Adams Express, Cleveland, Cmeinnati, Chicago & St. Loms By, Adams and American Expresses, Cleveland, Lorani & Wheeling Ry. American Express, Cleveland, St. Loms & Ransas City By, Paedic Express, Cleveland & Lorani & Wheeling Ry. American Express, Cleveland & Hanton By, American Express, Cleveland & Martetta By, American Express, Cleveland & Station Ry. American Express, Cleveland & Station By, American Express, Cleveland & Martetta By, American Express, Colorado River, Col 180 271 272 273 187 States Expresses (Operated by Cincinnati, Bamilton & Dayton Ry.) Payton & Union Ry. United States Express. Delawood Central Ry. Wells, Fargo & Co.'s Express, Delaware, Lackawanna & Western Ry. United States Express. Express.

Leavage & Marine & Messerii Ry.

Kiris & Mains & Kapress.

Lelaware Riiver & Lancaster R. R.

Delaware Riiver & Lancaster R. R.

Delaware & Hudson Ry. National Express.

Lenson & Washita Valley Ry. Paeific Express.

Lenson & Washita Valley Ry. Paeific Express.

Lenver & Rio Grande Ry. Denver & Rio Grande Express.

Lenver & Ceranton R. R. Paeific and Wells, Fargo & Co.'s

Express.

Let Moines & Kansus City Ry. American Express.

Let Moines & Northern Ry. United States Express.

Let Moines & Northwestern Ry. United States Express.

Let Moines & Northwestern Ry. Watchean Express.

Let Moines & Northwestern Ry. American Express.

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Let Moine & Moine & Milwanker Ry. National Express.

Let Moine & Moine & Milwanker Ry.

Let Washing & Northern Ry. American Express.

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Let Washing & Moine & Milwanker Ry.

Let Washing & Moine Ry.

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Diritam & Northern Ry. Southern Express.
East & West R. R. of Alabama. Southern Express.
East Broad Top Ry. Adams Express.
Eastern Ohio R. R. American and Baltimore & Ohio Ex-Fireses,
Fireses,
Fir East Tennessee & Western North Carolina Ry. Sould Express. Eastern Kentnety Ry. Adams Express, Cy.'s Express, Editiver Energia Ry. Wells, Fargo & Cy.'s Express, Edition of Communication of the Communication of the King, Southern Express, Eigin, Petiteodia & Hatvoleck Ry. Canadian Express, Elmira, Cortland & Northern Ry. National Express, Empire & Dublin Ry. Southern Express, Erre & Huron Ry. Dominion Express, Erre & Huron Ry. Dominion Express, Erre & Huron Ry. Erie & Huron Ry. Dominion Express.
Erie Canal.
Erie & Pittsburg Ry. Adams Express.
Erie & Woming Valley Ry. Wells, Fargo & Co.'s Express.
Esquinoult & Nanaimo Ry. Northern Pacific, Dominion
and Wells, Fargo & Co.'s Expresses.
Eureka Springs Ry. Adams Express.
Farlavith & Terrie Hante Ry. Adams and Pacific Expresses,
Farlavith & Forent Right Ry. Dominion Express.
Farlaville & Forent Ry. Dominion Express.
Farlaville & Powhattan Ry. Southern Express.
Farlaville & Powhattan Ry. Southern Express.
Flind & Fort Wayne & Western Ry. United States Express.
Flind & For Marquette Ry. American Express.
Florida Southern Grande Ry. Southern Express.
Forda, Johnstown & Gloversville Ry. American Express.
Fort Wayne, Cincinnal & Louisville Ry. United States
Express.
Fort Wayne, Cincinnal & Louisville Ry. United States
Express.
Franklin & Fillon Ry. American Express.
Franklin & Rio Grande Ry. Pacific Express.
Franklin & Rio High Ry. American Express.
Franklin & High Ry. American Express.
Franklin & Fillon Ry. Frazer River.
Fremont, Elkhorn & Missouri Valley Ry. Wells, Fargo & Co's Express. 271 Franklin & Tulon Ry. American Express.
272 Frechold & New York Ry. Adams Express.
273 Frazer River.
274 Framont, Elkhorn & Missonri Valley Ry. Wells, Fargo &
275 Frazer River.
275 Frazer River.
276 Gaineson & Southern Ry. American Express.
277 Gaiveston & Western Ry. Southern Express.
278 George & Greek & Cumberland Ry. Adams United States
279 George from & Western Ry. Southern Express.
279 George from & Western Ry. Southern Express.
270 Georgia Ry. Southern Express.
270 Georgia Ry. Southern Express.
271 Georgia Ry. Southern Express.
272 Georgia Ry. Southern Express.
273 Georgia Parille Ry. Southern Express.
274 Georgia Parille Ry. Southern Express.
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277 Georgia Parille Ry. Southern Express.
278 Georgia Parille Ry. Southern Express.
278 Georgia Southern & Florida Ry. Southern Express.
279 Gerat Southern & Florida Ry. Southern Express.
280 Gration Centre R. R. Adams Express.
281 Gration Centre R. R. Adams Express.
282 Grand Tower & Carbondale Ry. Adams Express.
283 Grand Tower & Carbondale Ry. Adams Express.
294 Great Falls & Canada Ry. Great Falls & Canadian Express.
295 Great Falls & Canada Ry. Great Falls & Canadian Express.
296 Great Palls & Canada Ry. Great Falls & Canadian Express.
297 Great Palls & Canada Ry. Great Falls & Canadian Express.
298 Great Morthern Ry. Line. American Express.
299 Great Morthern Ry. Line. American Express.
290 Great Morthern Ry. Line. American Express.
291 Green Bay, Winom & St. Paul. United States Express.
292 Green Bay, Winom & St. Paul. United States Express.
293 Green Ray. Winom & St. Paul. United States Express.
294 Green Bay, Winom & St. Paul. United States Express.
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296 Green Bay, Winom & St. Paul. United States Express.
297 Green Bay, Winom & St. Paul. United States Express.
298 Green Bay, Winom & St. Paul. United States Express.
299 Green Bay, Winom & St. Paul. United States Express.
290 Green Bay, Winom & St. Paul. United States Houston & Texas Central Ry. Wells, Fargo & Co.'s Expries.

Hudson River.

Humberston & Shenandeah Ry. American Express.

Humberston & Shenandeah Ry. American Express.

Huntington & Broad Top Mountain Ry. Adams Express.

Hutchinson & Southern R. R. United States Express.

Himois Central Ry. American and Southern Expresses.

Himois River.

Hidiana, Illimois & Iowa Ry. United States Express.

Indiana & Illinois Southern Ry. Adams Express.
Indianapolis, Decatur & Western Ry. American Express.
Ingalls, White Rapids & Worthern Ry. American Express.
Intercolonial Ry. Canadian and Dominion Expresses.
International & Great Northern Ry. Pacific, Southern,
Texas and Western Ry. Co. S. Expresses, between
lowa Central Ry. United States Express,
Iowa Northern Ry. United States Express.
Iron Ry. United States Express.
Iron Ry. Adams Express.
Fronton Ry. Adams Express.
Frondale, Express/Rodden Ry. American and United
Matter Expresses.
Matter Expresses.
Jacksonville, Mayport & Pablo Ry. Southern Express.
Jacksonville, Mayport & Pablo Ry. Southern Express.
Jacksonville, Na Nagustine & Hailiax River Ry. Southern
Express. 403 Louisville, Hardansburg & Western Ry. Umted States Ex-press, Louisville, New Albany & Chicago Ry, American Express, Louisville, New Albany & Corydon Ry, Adams Express, Louisville, New Orleans & Texas Ry, Pacific Express, Louisville, St. Louis & Texas Ry, United States Express, Louisville & Vashville Ry, Adams and Southern Ex-20 4 Louisville, 8t. Louis, & Texas Ry, United States Express, Lonisville & Nashwille By, Adams and Southern Expresses, Louisville & Nashwille By, Adams and Southern Expresses, Louisville & Nathonal Express, Louisville & Durhau, R. f., National Express, Louisville & Durhau, R. f., National Express, Louisville & Durhau, R. f., National Express, Malnoring Valley R. R. American Express; Dominion Express, Maine Central Ry. American Express; Dominion Express, Mannetian Ry, Elevated Rys, of New York City, Mamstee & Northeastern Ry, American Express, Marnetian Ry, Sortheastern Ry, American Express, Marietopa & Phoenix Ry, Wells, Fargo & Co. S. Express, Marietopa & Phoenix Ry, Adams Express, Mary Lee Coal & Ry, Co. Southern Express, Mason City & Fort Dodge Ry, American Express, Mason City & Fort Dodge Ry, American Express, Meson Coenan Ry, Marietan Express, Medical Express, Medical Express, Medical Express, Medical Express, Medical Express, Medical Ry, Southern Express, Medical Express, Memphils & Chiestille Ry, Adams Express, Memphils Rotte Ry, Southern Express, Memphils & Charleston Ry, Southern Express, Memphils & Charleston Ry, Southern Express, Memphils & Charleston Ry, Southern Express, Memphils & Waterbury & Connecticut River Ry, United Merriture River, Westen Ry, Wells, Fargo & Co. 8 Express. Express. Jacksonville Southeastern Ry. Adams Express. Jacksonville, Tampa & Key West Ry. Southern Express. Jacksonville & Atlantic Ry. Southern Express. Jacksonville, Tampa & Key West Ry. Southern Express, James River.

Jacksonville & Atlantic Ry. Southern Express.

James River.

James River.

Joggins Ry. Dominion Express.

Ranterskilt Ry. American Express.

Gografied by the Uster & Delaware Ry.

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Gografied by the Uster & Delaware Ry.

Gamawha River.

Kamawha Keyr.

Kamawha Keyr.

Kamawha & Goal River Ry. United States Express.

Kamawha & Michigan Ry. United States Express.

Kandakee & Seneca Ry. American Express.

(Operated by the Clevedand, Cheinmall, Chicago & St. Lonis Ry.)

Kanona & Truttsburg Ry. Wells, Fargo & Co.'s Express.

Kanisas City, Fort Sectt & Memphis Ry. Adams and South-Ransiss City, Fort Sectt & Memphis Ry. Adams Express.

Kanisas City, Fort Smith & Southern Ry. Adams Express.

Kanisas City, Memphis & Birningham Ry. Adams and Southern Expresses.

Kanisas City, Weyand & Fort Smith Ry. Wells, Fargo & Co.'s Express.

Kanisas City, Oscola & Southern Ry. Pacific Express.

Kanisas City, St. Joseph & Conned Bhills Ry. American Kanisas City, St. Joseph & Conned Bhills Ry. American Kanisas City, Wyandotte & Northwestern Ry. Pacific Express. 1 12 11 States Express.

Merrimar River.

Mexlean Ry. Wells, Fargo & Co.'s Express.

Mexlean Central Ry. Wells, Fargo & Co.'s Express.

Mexlean International Ry. Wells, Fargo & Co.'s Express.

Mexlean Mattonal Ry. Mexlean Mational Express.

Mexlean Northern Ry. Wells, Fargo & Co.'s Express.

Mexlean Southern R. R.

Hami & Eric Canal.

Morriego Express. smann & Eric Guial.
Michigan Central Ry, American Express.
Michoacan & Pacille Ry, Mexican National Express.
Middleburg & Scholarie Ry, National Express.
Middleburg, Highland & Lake Butler Ry, Southern Ex-Kansas City, Wyandotte & Northwestern Ry. Pacific Ex-Kimsus City, Wyandotte & Northwestern Ry. Pacific Express.
Kearney & Black Hills Ry. Pacific Express.
Kearney & Black Hills Ry. Pacific Express.
Kentonal Express.
Automat Express.
Kentonal Express.
Kentonal Express.
Kentonal Milliand Ry. Andrican Express.
Kentonal Milliand Ry. United States Express.
Kentonal Milliand Ry. United States Express.
Kentonal Milliand Ry. United States Express.
Kentonal Milliand Ry. Adams Express.
Kentonal Milliand Ry. Adams Express.
Kentonal Kooth Atlantic Ry. Adams Express.
Kentonal Kooth Atlantic Ry. Adams Express.
Kindare & Landen Ry. Pacific Express.
Kindare & Landen Ry. Pacific Express.
Kindare & Landen Ry. Pacific Express.
Kingston & Adelphi Ry. Adams Express.
Kingston & Pembroke Ry. Canadian Express.
Kingston & Comberland Ry. Canadian Express.
Know & Lincoln Ry. American Express.
Know & Lincoln Ry. American Express.
Know & Comberland Gap & Louisville Ry. Southern
Express.
Knowlike Comberland Gap & Louisville Ry. Southern
Express. press,
Middle Georgia & Allantic Ry. Southern Express,
Middle & East Tennesse Ry. Southern Express,
Midland Ry. Indiama. United States Express,
Milen & Southern Ry. Southern Express,
Milen & Southern Ry. Southern Express,
Milwauke, Lake Shore & Western Ry. V. S. Express
Milwaukee, Menomonce Falls & Western Ry. Amer
Express. Express, Milwankee & Northern Ry, American Express, Minden Ry, United States Express, Mineral Rauge Ry, American Express, Minerapolis, Lyndale & Minnetonka Ry, American Ex-343.5 Minneapolis, St. Paul & Sault Ste. Marie Ry. American Ex-priess.

Mississpip River & Rome Terre Ry. Paeific Express.
Mississpip River & Rome Terre Ry. Paeific Express.
Mississpip River.
Missouri, Kansas & Texas Ry. Paeific Express.
Missouri Faeific Ry. Paeific Express. Missouri Pacific Ry. Pacific Express.
Missouri Ruter.
Mobile & Birmingham Ry. Adams & Southern Expresses.
Operated by East Tennessee, Virginia & Georgia R. R.)
Mobile & Spring Hill Ry. Southern Express.
Monologialed River.
Mon Knoxyille & Augusta Ry. Southern Express. Knoxyille & New River Ry. Southern Express. Lackawanna & Pittsburg Ry. American Express. Lake Erie, Allianee & Southern Ry. Adams Express. Lake Erie, Essey & Detroit River Ry. Canadian Express, Lake Erie & Western Ry. United States Express, 377 378 379 4 45 65 Lake Huron. Lake Michigan. lake Ontario. Lake Pontchartrain Lake Pontchartrain.

Lake Shore & Muchigan Southern Ry. United States Express, all points west of Cleveland. American Express, all points between Cleveland and Buffalo; United States runs through express to Dunkirk and Buffalo. Lakes the American Express.

Lakes 18. American Ry. United States Express.

Lakes 18. Clair. Monterery & Mexican Gulf Ry. Wells, Fargo & Co.'s Express.

Montour Ry. American Express.

Montreal & Ottawa Ry.

Montreal & Alexan Ry. Ry. American Express.

Montreal & Mexican Express.

Morriston & Lake River Ry. American Express.

Morriston & Comparison of the Morriston of the Morriston of the Morriston & Comparison of the Morriston & Monta Mergeor Ry. National Express.

Moshiesnick Valley Ry. Earle & Prew Express.

Moshiesnick Valley Ry. Earle & Prew Express.

Nathicket Ry. New York & Boston Despatch Express.

National Express of Morriston of the Morriston 386 Lake St, Clart
Lake Superior,
Lake Tembermingue Colonization Ry, Dominion and
American Express,
Lake Wimmpeg,
Lamenster, Oxford & Southern Ry, Adams Express,
L'Assumption Ry, Dominion Express,
L'Assumption Ry, Dominion Express,
Lebanon Springs Ry, National Express,
Lebigh Valley Ry, Adams Express,
Lebigh Valley Ry, Adams Express,
Lebigh Valley Ry, Adams Express,
Ligomer Valley Ry, Adams Express,
Ligomer Valley Ry, Adams Papress,
Little Rock & International Colonians (Colonians)
Little Rock & Memphis Ry, Facilic Express,
Little Rock & Memphis Ry, Facilic And Southern Express,
Little Rock & Memphis Ry, Facilic And Southern Express,
Little Rock & Memphis Ry, Facilic And Southern Express,
Little Rock & Memphis Ry, Facilic And Southern Express,
Little Rock & Memphis Ry, Facilic And Southern Express,
Little Rock & Memphis Ry, Facilic And Southern Expresses 178 479 12.44 2 (15) presses. Long Island Ry. Long Island Express. Los Angeles Terminal Ry. Wells, Fargo & Co.'s Express. Louisiana Northwest Ry. Battimore & Ohio Express. Louisville, Evansville & St. Louis Ry. United States Ex-42.63.52 

 rapress. Nevada & California Ry. Wells, Fargo & Co's Express. New Brunswick & Prince Edward Island Ry. Dominion Express.

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Newburg, Dutchess & Connectical Ry. American Express, New Jersey & New York Ry. United States Express, New Orleans, Fort Jackson & Grand Isle Ry. Wells, Fargo & Co.'s Express. New Orleans & Gulf Ry. Southern Express, New Orleans & Gulf Ry. Southern Express, Newport & Sterman's Yalley R. R. Southern Express, Newport & Sterman's Yalley R. R. Southern Express, Newport Mess & Mississippl Valley Ry. Adams and Balti-mose Othor Express, New York Central & Hudson River Ry. American Ex-press. 575 Petersburg Ry. Southern Express. 576 Philadelphia, Newton & New York Ry. United States Ex-Philadelphia, Newton & New York My.
press.
Pimadelphia, Wilmington & Baltimore Ry, Adams Express,
Plihadelphia & Reading Ry. United States Express.
Plihadelphia & Reading Ry. United States Express.
Pledmont Air Line Ry.
Southern Express.
Pledmont Air Line Ry.
Southern Express.
Plus Blie, Monroe & New Orleans Ry. Southern Express.
Pittsburg, Akron & Western Ry. United States Express.
Pittsburg, Charlters & Youghlogheny Ry. Adams Express.
Pittsburg, Cineinnati, Chicago & St. Louis Ry. Adams Express.
Pittsburg, Cineinnati, Chicago & St. Louis Ry.  $\frac{497}{498}$ press. New York, Chicago & St. Louis Ry. American Express. New York, Lake Erae & Western Ry. Wells, Fargo & Co.'s Pittsburg, Fort Wayne & Chicago Ry. Adams Express. Pittsburg, Marion & Chicago Ry. Adams Express. Pittsburg, Painesville & Fairport Ry. Wells, Fargo & Co.'s New York, Lake frie & Western Ry. Wens, Fargo & Co. 8 Express. New York, New Haven & Hartford Ry. Adams Express. New York, Ontario & Western Ry. National Express. New York, Pennsylvania & Ohio Ry. Wells, Fargo & Co.'s Phtsburg, Ambewile & Fairport Ry. Wells, Fargo & Co.'s Express.
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EXPIESS.

New York, Philadelphia & Norfolk Ity. Adams Express.

New York, Providence & Boston Ity. Adams and New
York & Boston Dispatch Expresses.

New York, Susquehanna & Western Ry. National Ex-75 64 12 press. w York & Greenwood Lake Ry. Wells, Fargo & Co.'s New York & Greenwood Lake by.
Express.
Yew York & Long Branch Ry. United States Express.
New York & Massachusetts Ry. American Express.
New York & Massachusetts Ry. American Express.
New York & Northern Ry. Andarican Express.
New York & Northern Ry. American Express.
New York & Rockaway ileach Ry. Long Island Express.
New York & Sen Benefi Ry. New York Local Express.
New York & Sen Benefi Ry. New York Local Express.
New York & Walmeton New Line Ry. composed of
Central Ry. of New Local Express.
Ratinnor & Ohio Ry. Baltimore & Ohio Express.
Ratinnor & Ohio Ry. Baltimore & Ohio Express.
Niagara Falls Short Line Ry. composed of
Wabush Ry. Pacific Express.
Grand Trunk Ry. Canadian Express.
Niagara Falls Consoling Ry. Canadian Express.
Niagara Bayer. Profile & Franconia Notch Ry. Canadian Express.
Profile & Franconia Notch Ry. New York & Boston Despetic Express.
Prospect Park & Concy Island Ry. New York Local Ex-Grand Trunk Ry. Canadian Express.
Nagara Rayes.
Norfolk, Albemarle & Atlantie R. R. Southern Express.
Norfolk Suthern Ry. Southern Express.
Norfolk & Virginia Beach Ry. Southern Express.
Norfolk & Western Ry. Southern Express.
Norfolk & Western Ry. Southern Express.
Norfolk & Western Ry. Southern Express.
Norfolk Albert Ry. Southern Express.
Norfolk Pacific Coast Ry.
Wells, Fargo & Co. S. Express.
Northern Addrondack Ry. Northern Adfrondack and
American Express, Wells, Fargo & Co. S. Express.
Northern California Ry. Wells, Fargo & Co. S. Express.
Northern Central Ry. United States and American Expresses. Prospect Park & Oney Island Ry. Asw York Local Experiments of the State States and Property of the Property of 524 Northern Central Ry. United States and American Expresses.

Northern Pacific Ry. Northern Pacific Express.

Northern Pacific Ry. Northern Pacific Express.

Othern Pacific Ry. Adams Express.

Operated by Pennsylvania Ry.)

Northern & Western Ry. Canadian Express.

Nova Scotia Central Ry. Canadian Express.

Otho River Ry. Adams Express.

Otho River Ry. Adams Express.

Otho Kiver Ry. Adams Express.

Otho Salver Ry. Southern Express.

Otho Salver Ry. Adams Express.

Otho & Western Ry. Adams Express.

Otho & M. Schuly Ry. Adams Express.

Otho & W. Schuly Ry. Walms Express.

Otho & W. Schuly Ry. Southern Express.

Othor & W. Schuly Ry. Southern Pacific Express.

Orange Lett Ry. Southern Express.

Orange County Ry. Wells, Fargo & Co.'s Express.

Orange Idel Ry. Southern Express.

Orange Orang Ry. Wells, Fargo & Co.'s Express.

Orange Idel Ry. Southern Express.

Orange Orang Ry. Wells, Fargo & Co.'s Express.

Orange Orang Ry. Wells, Fargo & Co.'s Express. 621 Richmond & Danville Ry. Southern Express.
622 Richmond & Danville Ry. Southern Express.
623 Richmond & Petersburg Ry. Southern Express.
624 Richmond & Petersburg Ry. Southern Express.
625 Richmond Education Ry.
626 Richmond Education Ry.
627 Richmond Ry. Wells, Fargo & Co.'s Express.
628 Richmond River.
628 Richmond River.
629 Richmond Southern Ry. Denver & Richmond Express.
629 Richmond & Eagle Pass Ry. Pacific Express.
630 Ripley & Mill Creek Valley Ry. Adams Express.
631 Roamoke & Southern Ry. Southern Express.
632 Rochester, Hornelbyside & Leckwamma Ry. United States
Express.
633 Rochester, Mornelbyside & Leckwamma Ry. United States
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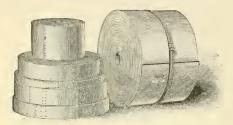
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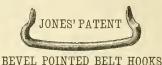
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## AIR COMPRESSORS

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PARKER, MELCHER & INCRAHAM, Chicago, Ill. See

H. K. PORTER & CO., Pittsburgh, Pa. See adv., page 54s.

RAND DRILL CO., New York and Chicago, See adv. page 20.

UNION IRON WORKS, San Francisco, Cal. See adv. page 6.

WALBURN-SWENSON CO., Cheago, H. See adv., page 17.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio-See adv., page 29.

#### AMALGAMATORS

CHICACO IRON WORKS, Cheago, Ill. See adv., page 21. CATES IRON WORKS, Chicago, Ill. See adv., page 3. WALBURN-SWENSON CO., Chicago, Ill. See adv., page 57.

## ANTI-FRICTION METAL

EASTWOOD WIRE MANUFACTURING CO., Belleville, N. J. Sec adv., page 526.

DIAMOND ANTI-FRICTION METAL CO., Chic. go. III. See adv., page 516.

QUEEN CITY SUPPLY CO., Che math. Ohio. Sec adv., page 540.

WADHAMS OIL & CREASE CO., Milwankee, W's, See adv., page 5.

## **ASBESTOS**

FENLON & CO., Philadelphia, Pa. See adv., page 547.

H. W. JOHNS MANUFACTURING CO., Cheargo, Ill. See adv., page 547.

## ASSAY FURNACES

W. HOSKINS, Chicago, Ill. See adv., page 11

## ASSAYERS AND ANALYTICAL CHEMISTS

ALFRED CUILLAUME, Chicago, III See adv., page II.
MARINER & HOSKINS, Cheago, III. See adv., page II.
RICKETTS & BANKS, New York City. See adv., page II.
ST. LOUIS SAMPLING & TESTING WORKS, St. Louis,

Mo See adv., page 516.
SELBY SMELTING & LEAD CO., San Francisco, Cal. See

## ASSAYERS' SUPPLIES

BULLOCK & CRENSHAW, Paladelphia, Pa. See adv., page 582.

W. HOSKINS, Chicago, Ill. Sec adv., page 11.

QUEEN & CO., Philadelphia, Pa. Sec adv., page 547.

RICHARDS & CO., LTD., Chicago and New York. Sec adv., page 5.

E. H. SARCENT & CO., Chicago, Ill. See adv., page 4.

#### ATTORNEYS

| See list, page 417. |

## AUXILIARY PUMPS

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y See adv., page 550.

## BABBITT METAL

DIAMONO ANTI-FRICTION METAL CO., Chicago, 111. See adv., page 546.

EASTWOOD WIRE MANUFACTURING CO., Believille, N. J. See adv., page 526.

EPPING, CARPENTER & CO., LTD., Pittsburgh, Pa. See adv., page 548.

QUEEN CITY SUPPLY CO., Cincinnati, Ohio. See adv.,

WADHAMS OIL & CREASE CO., Milwankee, Wis. See adv., page 5.

## BATTERY SCREENS

CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.

ROBERT AITCHISON PERFORATED METAL CO., Chicago, Ill. See adv., page 9.

HOWARD & MORSE, New York City. See adv., page 527.

THE PHŒNIX WIRE WORKS, Detroit, Mich. See adv., page 9.

## BELT DRESSING

WADHAMS OIL & CREASE CO., Milwaukee, Wis. See adv., page 5.

## BELT HOOKS

JEWELL BELTING CO., Hartford, Conn. See adv., page 36.

## BELTING

BOSTON BELTING CO., Boston, Mass. See adv., page 21.

THE CUTTA PERCHA & RUBBER MANUFACTURING CO., Chicago, Ill. See adv., page 9.

JEWELL BELTING CO., Hartford Conn. See adv., page 36.

NEW JERSEY CAR SPRING & RUBBER CO., Jersey
City, N. J. See adv., page 532.

QUEEN CITY SUPPLY CO., Cincinnati, Ohio. See adv., page 540.

## **BLACKSMITH TOOLS**

KELLEY, MAUS & CO., Chicago, Ill. See adv., page 8. S. D. KIMBARK, Chicago, Ill. See adv., page 8.

## BLASTING POWDER

ACME POWDER CO., Pittsburgh, Pa. See adv., page 548. ÆTNA POWDER CO., Chicago, Ill. See adv., page 534.

## BLASTING PRIMERS

METALLIC CAP MANUFACTURING CO., New York City. See adv., page 534.

## **BLOWERS**

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.
CHICACO IRON WORKS, Chicago, Ill. See adv., page 21.
KELLEY, MAUS & CO., Chicago, Ill. See adv., page 8.
THE P. H. & F. M. ROOTS CO., Counersville, Ind. See adv., page 550.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

## BLOWING ENGINES

EDWARD P. ALLIS CO., Milwaukee, Wis. Sec adv., page 2.

## **BLOW PIPES**

W. HOSKINS, Chicago, Ill. See adv., page 11.

## BLUE VITRIOL MANUFACTURERS

CHICACO & AURORA SMELTING & REFINING CO., Chicago and Aurora, Ill. See adv., page 11.

## BOILER COMPOUND

AMERICAN FLUORIDE CO., New York City. See adv., page 533.

CEORCE W. LORD, Philadelphia, Pa. See adv., page 533.

WADHAMS OIL & CREASE CO., Milwaukee, Wis. See adv., page 5.

## BOILER FEED PUMPS

THE COULDS MANUFACTURING CO., Seneca Falls, N. Y. See adv., page 550.

DEANE STEAM PUMP CO., Holyoke, Mass. See adv., page 543.

WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 543.

## **BOILER FEEDERS**

AMERICAN INJECTOR CO., Detroit, Much. See adv., page 542.

PENBERTHY INJECTOR CO., Detroit, Much. See adv., page 542.

## BOILER PROTECTOR

CEORGE W. LORD, Philadelphia, Pa. See adv., page 533.

## BOILERS

EDWARD P. ALLIS CO., Milwankee, Wis. See adv., page 2.

CHANDLER & TAYLOR CO., Indianapolis, Ind. See adv., page 542.

CHICAGO IRON WORKS., Chicago, Ill. See adv., page 21.
COPELAND & BACON, Chicago and New York. See adv., page 585

EXCELSIOR IRON WORKS, Cleveland, Ohio, See adv., page 17.

KROESCHELL BROS., Chicago, Ill. Sec adv., page 540.
OSTERLOH SUPPLY CO., Pittsburgh, Pa. Sec adv., page 541.
SCIOTO BOILER WORKS, Columbus, Ohio. Sec adv., page 549.

THE STIRLING CO., Chicago, Ill. See adv., page 542.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6.

## BOILER SCALE PREVENTIVE

AMERICAN FLUORIDE CO., New York City, See adv., page 533.

FIELD FEED WATER PURIFIER CO., Chicago, Ill. See adv., page 533.

HOPPES MANUFACTURING CO., Springfield, Ohio. See adv., page 533.

## BOILER SCALE REMOVER

## AMERICAN FLUORIDE CO., New York City. See adv., page 533.

## BONDS

THE WESTERN BANK NOTE CO., Chicago, Hi. See adv., page 550.

## BRIDGES

BERLIN IRON BRIDGE CO., East Berlin, Conn. Our lllustrated catalogue sent free.

BOSTON BRIDGE WORKS, Boston, Mass. See adv.,

KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

#### BROKERS

(See also Mine Brokers

JAMES A. BOCCS, Dulato, Minn. Secondy, page 611 LEE BURT, Detroit, Mich. Secondy, page 548. A. P. FENNERTY, Denver, Colo. Secondy, page 548. W. F. KENDRICK, Denver, Colo. Secondy, page 551.

## **BRONZE CASTINGS**

EASTWOOD WIRE MANUFACTURING CO., Belleville N.J. See adv., page 526

## BUCKETS

EXCELSION IRON WORKS, Cleveland, Ohne See adv., page 17.

McMYLER MANUFACTURING CO., Clev fland, Olno. See adv., page 18.

F. H. C. MEY, Buffalo, N. Y. Sec adv., page 541

## BUILDING PAPER

KANSAS CITY METAL ROOFING & CORRUCATING CO., Kansas City, Mo. See adv., page 7.

## CABLE TRAMWAY

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.

C. W. BADCLEY & CO., Denver, Colo. See adv., p. 2-549. CHICACO IRON WORKS, Chicago, Ill. See adv., p. 2e 21.

COPELAND & BACON, Chicago and New York. 8 adv., page 535.

VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.

## CARBONS

VICTOR BISHOP & CO., New York City See adv.,

## CAR BEARINGS

EPPING, CARPENTER & CO., LTD., Pittsburgh, Pa. See

## CAR CASTINGS

See also Castings

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio. See adv., page 20.

## CAR HEATERS

RAILWAY EQUIPMENT CO., Chicago, 1th. Sec. adv., page 28.

## CARS

(See Mine Cars)

## CARS FOR CONCENTRATES

See also Mine Cars)

THE LIMA LOCOMOTIVE & MACHINE CO., Lona, Ohio, Sc., adv., page 20.

## CAR WHEELS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

 HERBERTSON'S SONS, Brownsville, Pa. Sec. adv., page 542.

JACKSON & WOODIN MANUFACTURING CO., Berwick, Pa. See adv., page 541.

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio, See adv., page 20.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv page 5a.

JUSTIN J. PIE & CO., Osceola Mills, Pa. See adv., page 536. FITTSBURCH CAR WHEEL CO., cor. Home and Hatfield

THE RUSSEL WHEEL & FOUNDRY CO., Domail. Mach. See adv., page 500.

S. B. STINE, Osceola Mills, Pa. See adv., page 47.

 WHITNEY & SONS, Philadelphia, Pa. See adv., page 596.

#### CASTINGS

EXCELSION IRON WORKS, Cleveland, Ohio. See adv., page 17.

CACKSON & WOODIN MANUFACTURING CO., Ber wiek, Pa. See adv., page 541.

LIMA LOCOMOTIVE & MACHINE CO., Lima, Olno. See adv., page 20.

SALT LAKE CITY FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See adv., page 7.

SCAIFE FOUNDRY & MACHINE CO., Pittsburgh, Pa. See adv., page 548.

WALBURN-SWENSON CO., Chacago, Ill. See adv., page 537.

A. WHITNEY & SONS, Philadelphia, Pa. See adv., page 536.

## CAST-IRON PIPES

JACKSON & WOODIN MANUFACTURING CO., Berwick, Pa. See adv. page 541.

## CEMENT MILLS

(See also Pulverizers)

BRADLEY FERTILIZER CO., Boston, Mass. See adv., page 12.

STURTEVANT MILL CO., Boston, Mass. See adv., page

## CHAIN BELTING

JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.

F. H. C. MEY, Buffalo, N. Y. See adv., page 541.

## CHARGING BARROWS

THE KILBOURNE & JACOBS MANUFACTURING CO., Columbus, Ohio. See adv., page 544.

## CHEMICAL APPARATUS

BULLOCK & CRENSHAW, Philadelphia, Pa. See adv.,

QUEEN & CO., Philadelphia, Pa. See adv., page 547.
RICHARDS & CO., LTD., Chicago and New York. See adv., page 5.

E. H. SARCENT & CO., Chicago, Ill. See adv., page 4.

## CHEMICALS

BULLOCK & CRENSHAW, Philadelphia, Pa. See adv., page 532.

QUEEN & CO., Philadelphia, Pa. See adv., page 547.
RICHARDS & CO., LTD., Chicago and New York. See adv., page 5.

E. H. SARCENT & CO., Chicago, Ill. See adv., page 4.

## COAL AND ORE WASHERS

COPELAND & BACON, Chicago and New York. See adv., page 535.

RAYMOND BROS. IMPACT PULVERIZER CO., Chicago, Ill. Sec adv., page 34.

SCAIFE FOUNDRY & MACHINE CO., Pittsfurgh, Pa. See adv., page 548.

WALBURN-SWENSON CO., Chicago, 1h. See adv., page

## COAL DRILLS

MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.

CEORCE D. WHITCOMB, Chicago III. See adv., page

## COAL MINING MACHINERY

CENERAL ELECTRIC CO., New York City. See adv.

THE JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

FRANK N. SLADE, Columbus, Ohio. See adv., page 539. CEORGE D. WHITCOMB, Chicago, Ill. See adv., page 20.

## **COKE CRUSHERS**

(See also Crushers)

C. M. KELLER, Columbus, Ind. See adv., page 533.

## COKE-WORKS EQUIPMENTS

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 536.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

## COMPRESSION GREASE CUPS

WADHAMS OIL & CREASE CO., Milwaukee, Wis. See adv., page 5.

## CONCENTRATORS .

EDWARD P. ALLIS CO., Milwankee, Wis. See adv., page 2.

AMERICAN MANUFACTURING, MINING & MILLING
CO., Cleveland, Ohio. See adv., page 12.

CARTER MAGNETIC ORE SEPARATOR CO., Brooklyn. N. Y. See adv., page 545.

CHICAGO IRON WORKS, Chicago, III. See adv., page 21.
CATES IRON WORKS, Chicago, III. See adv., page 3.
CEORGE M. CROSS, Chicago, III. See adv., page 34.
UNION IRON WORKS, San Francisco, Cal. See adv., page 57.
WALBURN-SWENSON CO., Chicago, III. See adv., page 57.

## CONSTRUCTING ENGINEERS

CREACHEAD ENCINEERING CO., Cincinnati, Ohio, See adv., page 546.
RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## CONTRACTORS

CONNOR & CRANT, San Francisco, Cal. See adv., page 9.

## CONTRACTORS' AND MINERS' SUPPLIES

THOS, CARLIN'S SONS, Allegheny, Pa.—See adv., page 13. CHICACO IRON WORKS, Chicago, IR.—See adv., page 21. CONTRACTORS' PLANT MANUFACTURING CO., Buffalo, N. Y. See adv., page 586.

KELLEY, MAUS & CO., Chicago, III. See adv., page 8.

PARKER, MELCHER & INCRAHAM, Chicago, III. See adv., page 32.

RAND DRILL CO., New York. See adv., page 20.SOMERS, FITLER & CLARKE, Pittsburgh, Pa. See adv., page 548.

SULLIVAN MACHINERY CO., Chicago, III. See adv., page 535.

#### CONVEYING MACHINERY

- C. W. BADCLEY & CO., Denver, Colo. See adv., page 549.
  C. O. BARTLETT, Cleveland, Ohio. See adv., page 13.
- THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Olio. See adv., page 34.
- COPELAND & BACON, New York and Chicago, See adv.,
- CHICACO IRON WORKS, Chicago, III. See adv., page 21.
- THE JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.
- THE KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

  McMYLER MANUFACTURING CO., Cleveland, Ohio. See adv., page 13.
- F. H. C. MEY, Buffalo, N. Y. See adv., page 541.
- RICE MACHINERY CO., Chicago, Ill. See adv., page 541.
- SCAIFE FOUNDRY & MACHINE CO., Pittsburgh, Pa. Sec. adv., page 548.
- VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.
- WEBSTER MANUFACTURING CO., Chicago, III. See adv., page 13.

## COPPER

C. M. CARRISON, Pittsburgh, Pa. See a Iv., page 10.

## COPPER AND BRASS CASTINGS

EASTWOOD WIRE MANUFACTURING CO., Belleville, N.J., See adv., page 526.

## COPPER INGOTS

CHICAGO COPPER REFINING CO., Chicago, Ill. See adv., page II.

## COPPER REFINERS

CHICACO COPPER REFINING CO., Chicago, Ili. See adv., page 11.

## CORNISH ROLLS

- CHICACO IRON WORKS, Chicago, Ill. See adv., page 21.
  CATES IRON WORKS, Chicago, Ill. See adv., page 3.
  VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.
- WALBURN-SWENSON CO., Chicago, Ill. Sec. adv., page 537.

## CORRUGATED IRON

- KANSAS CITY METAL RODFING & CORRUCATING CO., Kansas Cdy, Mo. See adv., page 7.
- W. W. MONTACUE & CO., San Francisco, Cal. See adv., page 527.

## CORUNDUM WHEELS

MICHICAN EMERY WHEEL CO., Detroit, Mich. See adv., page 9.

#### CRANES AND DERRICKS

- THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.
- CONTRACTORS' PLANT MANUFACTURING CO., Buffalo, X.Y. See adv., page 526.
- THE EXCELSIOR IRON WORKS CO., Cleveland, Ohio. See adv., page 47.
- McMyLER MANUFACTURING CO., Cleveland, Ohio, See adv., page 13.
- PENNSYLVANIA DIAMOND DRILL & MANUFACTUR-INC CO., Birdshoro, Pa. See adv., page 545.
- WALBURN-SWENSON CO., Chicago, Hl. See adv., page 537.

## CRUSHER PLATES

EDWARD P. ALLIS CO., Wilwankee, Wis. See adv., page 2.
CHROME STEEL WORKS, Brooklyn, N. Y. See adv., page 544.

## **CRUSHERS**

(Ore, Rock, Coal, etc. See also Pulverizers)

- EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.

  AMERICAN MANUFACTURING, MINING & MILLING CO., Cleveland, Ohio. See adv., page 12.
- THE BECKETT FOUNDRY & MACHINE CO., Arlington, N.J. See adv., page 545.
- BRADLEY FERTILIZER CO., Boston, Mass. See adv.,
- CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
  COPELAND & BACON, Chicago and New York. See adv.,
- CATES IRON WORKS, Cheago, Ill. See adv., page 3.
- C. M. KELLER, Columbus, Ind. See adv., page 535.
- ARTHUR KIRK & SON, Pittsburgh, Pa. See adv., page 54s.

  JAMES H. LANCASTER, Yew York City. See adv., page 54s.

  RAYMOND BROS. IMPACT PULVERIZER CO., Chicago,

  Ill. See adv., pages 1
- SCAIFE FOUNDRY & MACHINE CO., Pittsburgh, Pa. See adv., page 48.
- STURTEVANT MILL CO., Roston, Miss. Secardy, page 525.
  UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J.
  Secardy, page 545.
- UNION IRON WORKS, San Francesco, Cal. See adv., page 6.
- VULCAN IRON WORKS, San Francisco, Cal. See adv.,
- WALBURN-SWENSON CO., Chicago, Bl. See adv., page 587.

## CUT-OFF COUPLINGS

CHICAGO SHAFTING & PULLEY CO., Chicago, Ill. See adv., page 541.

## DERRICKS

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## DIAMOND DRILLS

- PENNSYLVANIA DIAMOND DRILL & MANUFACTUR-INC CO., Birdshoro, Pa. See adv., page 545.
- SULLIVAN MACHINERY CO., Chicago, Ill. Serady., page 545.

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## DIAMONDS

VICTOR BISHOP & CO., New York City. See adv., page 534.

## DRAINAGE PUMPS

(See also Mine Pumps)

THE COULDS MANUFACTURING CO., Scheed Falls, N.Y. See adv., page 550.

## DRAWING INSTRUMENTS & MATERIALS

EUGENE DIETZGEN & CO., Chicago, Ill. See adv., page 7. W. & L. E. GURLEY, Troy, N. Y. See adv., page 9.

## DRIVER'S LAMPS

DEMMLER BROTHERS, Pittsburgh, Pa. See adv., page 548.

## DUMP CARS

(See also Mme Cars)

- EXCELSIOR IRON WORKS, Cleveland, Ohio. See adv., page 17.
- McMYLER MANUFACTURING CO., Cleveland, Olno. See adv., page 13.
- MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.
- RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. See adv., page 536.

## DUMPING BUCKETS

(See also Buckets.)

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.

## **DUST PROTECTORS**

CIBBS RESPIRATOR CO., Chicago, Ill. See adv., page 526.

## DUST RESPIRATOR

CIBBS RESPIRATOR CO., Chicago, Ill. See adv., page 526.

## DYNAMITE

ACME POWDER CO., Pittsburgh, Pa. See adv., page 548. ÆTNA POWDER CO., Chicago, Ill. See adv., page 534. ARTHUR KIRK & SON., Pittsburgh, Pa. See adv., page 548.

## DYNAMOS

- EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn. See adv., page 17.
- ELECTRICAL ENGINEERING & SUPPLY CO., St. Paul. Minn. See adv., page 539.
- CENERAL ELECTRIC CO., New York. See adv. page 538.
  JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See

## **EJECTORS**

- AMERICAN INJECTOR CO., Detroit, Mich. See adv., page 542.
- PENBERTHY INJECTOR CO., Detroit, Mich. See adv., page 542.

## ELECTRIC BLASTING APPARATUS

- ÆTNA POWDER CO., Chicago, Ill. See adv., page 534.

  METALLIC CAP MANUFACTURING CO., New York, N. Y.

  See adv., page 534.
- RAND DRILL CO., New York. See adv., page 20.

## **ELECTRIC CABLES**

(See also Insulated Wire and Cables)

EASTERN ELECTRIC CABLE CO., Boston, Mass. See adv., page 539.

## ELECTRIC DRILLS.

GENERAL ELECTRIC CO., New York, N. Y. See adv., page 538.

## **ELECTRIC GENERATORS**

(See Dynamos)

## ELECTRIC HEATERS

RAILWAY EQUIPMENT CO., Chicago, III. See adv., page 28.

## ELECTRIC HOISTS

- EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn. See adv., page 47.
- CENERAL ELECTRIC CO., New York, N. Y. See adv., page 538.

# ELECTRIC LIGHT AND POWER MACHINERY

- CENERAL ELECTRIC CO., Boston and New York. See adv.,
- JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See adv., page 539.

## ELECTRIC LIGHT WIRE

(See also Insulated Wire and Cables)

CEO. CUTTER, Chicago, Ill. See adv., page 42.
EASTERN ELECTRIC CABLE CO., Boston, Mass. See adv. page 539.

SIMPLEX ELECTRICAL CO., Boston, Mass. See adv., page 539.

## **ELECTRIC LOCOMOTIVES**

CENERAL ELECTRIC CO., New York. See adv., page 538.

## **ELECTRIC MINING MACHINERY**

CENERAL ELECTRIC CO., New York. See adv., page 34.

JEFFREY MFG. CO., Columbus, Olno. See adv., page 4.

FRANK N. SLADE, Columbus, Olno. See adv., page 39.

## **ELECTRIC MOTORS**

EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn. See adv., page 17.

CENERAL ELECTRIC CO., New York. See adv., page 538.

JENNEY ELECTRIC MOTOR CO., Indamapolis, Ind. See adv., page 589.

# ELECTRIC POWER TRANSMISSION PLANTS

THE CREACHEAD ENGINEERING CO., Cincinnati, Olno. Sec adv., page 596.

CENERAL ELECTRIC CO., N w York See adv., pr \_e 538.

## **ELECTRICAL CONSTRUCTION**

ELECTRICAL CONSTRUCTION CO., Cheengo, Ill. See adv., page 539.

## ELECTRICAL ENGINEERS

ALFRED CUILLAUME, Chicago, III. Secardy, page 11.

ELECTRICAL CONSTRUCTION CO., Chicago, III. Seady, page 589.

## ELECTRICAL ENGINEERS AND CONTRACTORS

THE CREACHEAD ENGINEERING CO., Cincinnati, Olivo See adv., page 546.

ELECTRICAL CONSTRUCTION CO., Chicago, 10. Seradv., page 539.

## ELECTRICAL MACHINERY AND SUPPLIES

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
THE CREACHEAD ENGINEERING CO., Cincinnati, Ohio. See adv., page 546.

CEORGE CUTTER, Chicago, Ill. See adv., page 12.

EDDY ELECTRIC MANUFACTURING CO., Windsor, Conn. See adv., page 17.

ELECTRICAL ENGINEERING & SUPPLY CO., St. Paul, Minn. See adv., page 538.

CENERAL ELECTRIC CO., New York, N. Y. See adv., page 538.
JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.

JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See adv., page 539.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.
SIMPLEX ELECTRICAL CO., Boston, Mass. See adv., page 539.

## ELECTRICAL MINE PUMPS

THE COULDS MANUFACTURING CO., Sended Falls, N.Y. See adv., page 56.

## ELECTROLYTIC COPPER

CHICAGO COPPER REFINING CO., Chicago, Ill. Sec. adv., page 11.

## **ELEVATING MACHINERY**

Se catso Hoisting Machinery (

C. O. BARTLETT, Cleveland, Ohio. See adv., page 10 CHICACO IRON WORKS, Chicago III. See adv., page 21. THE JEFFREY MANUFACTURING CO., Columbus, Ohio-See adv., page 1.

F. H. C. MEY, Bullale, N. Y. See adv., page 541 RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## **ELEVATORS**

J. W. REEDY ELEVATOR MANUFACTURING CO., Chicago, Ill. See adv., pag + 523.

## **EMERY WHEELS**

MICHIGAN EMERY WHEEL CO., Detroit, Mich. See ad v., page 9

## ENGINEERING AND SURVEYING INSTRU-MENTS

See also Mathematical Instruments

EUGENE DIETZGEN & CO., Chicago, Ill. Sec adv., p. ... 7
W. & L. E. CURLEY, Troy, N. Y. Sec adv., page 9,
QUEEN & CO., Philadelphia, Pa. Sec adv., page 540,
WILLIAM E. STIEREN, Pittsburgh, Pa. Sec adv., p. ... 548

## **ENGINES AND BOILERS**

(See also Boilers and Steam Engines)

ATLAS ENGINE WORKS, Indianapolis, Ind.
THOMAS CARLIN'S SONS, Allegheny, Pa. See adv., page

CHANDLER & TAYLOR CO., Indianapolis, Ind. See adv., page 542.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
THOMAS P. CONARD, Philadelphia, Pa. See adv., page 585.
NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.

PALMER & REY, San Francisco, Cal. See adv., page 7.

FRANK N. SLADE, Columbus, Ohio. See adv., page 539.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6.

WALBURN-SWENSON CO., Chicago, III. See adv., page 537.

## **EXHAUST FANS**

CENERAL ELECTRIC CO., New York, N. Y. See adv., page

CEORGE M. CROSS, Chicago, Ill. See adv., page 34.

## FEED WATER HEATERS AND PURIFIERS

FIELD FEED WATER PURIFIER CO., Chicago, Ill. See adv., page 588.

HOPES MANUFACTURING CO., Springfield, Ohio. See adv., page 588.

KROESCHELLS & BOURGEOIS, Chicago, Ill. See adv., page 546.

#### FEED WATER NEUTRALIZED

GEO. W. LORD, Philadelphia, Pa. See adv., page 533.

## FIRE BRICK GRINDING MACHINERY

THOMAS CARLIN'S SONS, Allegheny. Pa. See adv., page 13.

## FORCE PUMPS

(See also Pumps)

THE P. H. & F. M. ROOTS CO., Connersville, 1nd. See adv., page 550.

#### **FORGINGS**

JACKSON & WOODIN MANUFACTURING CO., Berwick, Pa. See adv., page 541.

## FREIGHT CARS

JACKSON & WOODIN MANUFACTURING CO., Berwick, Pa., Sec adv., page 541.

## FRICTION CLUTCHES

CHICAGO SHAFTING & PULLEY CO., Chicago, Ill. See adv., page 541.

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio.
See adv., page 22.

## **FURNACE HOISTS**

(See also Hoisting Machinery)

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.

## **FURNACES**

(Blasting and Smelting)

CHICACO IRON WORKS, Chicago, Ill. See adv., page 21. CATES IRON WORKS, Chicago, Ill. See adv., page 3. VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 587.

## **FUSE**

CLIMAX FUSE CO., New York, N. Y. See adv., page 534.

## GAS COMPRESSORS

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

## GAS AND GASOLINE APPLIANCES

NEW YORK DOMESTIC CAS MACHINE CO., New York... See adv., page 20.

## GAS MACHINES

NEW YORK DOMESTIC CAS MACHINE CO., New York. See adv., page 20.

## GAS PLANTS

NEW YORK DOMESTIC CAS MACHINE CO., New York. See adv., page 20.

## GAS AND VAPOR ENGINES

OTTO CAS ENGINE WORKS, Philadelphia, Pa. See adv., page 526.

PALMER & REY, San Francisco, Cal. See adv., page 7.

PRIESTMAN & CO., Philadelphia, Pa. See adv., page 589.

WEBSTER MANUFACTURING CO., Chicago, Ill. See adv., page 13.

## GASOLINE ENGINES

OTTO CAS ENCINE WORKS, Philadelphia, Pa. See adv., page 526.

PALMER & REY, San Francisco, Cal. See adv., page 7.
PRIESTMAN & CO., Philadelphia, Pa. See adv., page 539.

## GRAPHITE

DETROIT CRAPHITE MANUFACTURING CO., Detroit, Mich. See adv. page 546.

## GRAPHITE PAINTS

DETROIT CRAPHITE MANUFACTURING CO., Detroit. Much, See adv., page 546.

## GRAPPLE BUCKETS

McMYLER MANUFACTURING CO., Cleveland, Ohio. See adv., page 13.

## GRAPPLES

JAMES H. LANCASTER, New York City. See adv., page 544.

#### GRAVEL EXCAVATORS

JOHN SOUTHER & CO., Boston, Mass. See, dv., page 502

#### GREASE

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 585.
WADHAMS OIL & CREASE CO., Milwankee, Wis. See adv., page 5

## GRINDING AND POLISHING MACHINERY

MICHICAN (EMERY WHEEL CO., Defroit, Mich. See adv., page 9.

## HAIR FELT

FENLON & CO., Philadelphia, Pa. See adv., page 547.

## HANGERS

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## HARD PAN EXCAVATORS

JOHN SOUTHER & CO., Boston, Mass. See adv., page 532.

## HARDWARE

KELLEY, MAUS & CO., Chicago, Hi. See adv., page 8. S. D. KIMBARK, Chicago, Hi. See adv., page 8.

## HAULAGE ENGINES

LITCHFIELD CAR & MACHINE CO., Litchfield, Ht. Seadv., page 536.

McMYLER MANUFACTURING CO., Cleveland, Ohio. See adv., page 13.

WEBSTER, CAMP & LANE MACHINE CO., Akron, Oh o-See adv., page .:

## HEATERS

See also Feed Wat a Hestiles.

HOPPES MANUFACTURING CO., Springfield, Olino. Seadv., page 550.

## HEAVY SHEET METAL WORKERS

HOPPES MANUFACTURING CO., Spran field, Ohio. Sc. adv., page -

## HOISTING ENGINES

EDWARD P. ALLIS CO., M. Iwadore, Wis. Sec. adv., page 2 CHICACO IRON WORKS, Chorgo, III. Sec. adv., page 21. CONTRACTORS' PLANT MANUFACTURING CO., Buf Into, N.A. Sec. adv., page 226.

COPELAND & BACON, New York and Chicago. See adv.,

EXCELSIOR IRON WORKS, Cleveland, Olno. See adv.,

PARKER, MELCHER & INCRAHAM, Chicago, 10. Sec. adv., page

PROX & BRINKMAN MANUFACTURING CO., Terre-Hante, Ind. See adv., page 50

J. W. REEDY ELEVATOR MANUFACTURING CO., 1 li. cago, 1ll. See adv., page 500

UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J. See adv., page 745.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6.

VULCAN IRON WORKS, San Francisco, Cal. See adv.,

## HOISTING MACHINERY

EDWARD P. ALLIS CO., Milwankee, Wis. See adv., page 2 BOSTON & LOCKPORT BLOCK CO., Boston, Mass. See adv., page 17.

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.

THOMAS CARLIN'S SONS, Allegheny, Pa. Sec adv., page 13.

CHICACO IRON WORKS, Chicago, Ill. See adv., page 21. THOS. P. CONARD, Philadelphia, Pa. See adv., page 535.

CONTRACTORS' PLANT MANUFACTURING CO., Buf falo, N. Y. See adv., page 526

## HOISTING MACHINERY (CONTINUED)

## COPELAND & BACON, Chicago and New York. See adv.,

- HERBERTSON'S SONS, Brownsville, Pa. See adv., page 542.
- THE KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

  LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.
- LITCHFIELD CAR & MACHINE CO., Litchfield, Ill. See adv., page 536.
- McMYLER MANUFACTURING CO., Cleveland, Ohio. See adv., page 13.
- JUSTIN J. PIE & CO., Osecola Mills, Pa. See adv., page 506.
  J. W. REEDY ELEVATOR MANUFACTURING CO., Chicago, Ill. See adv., page 526.
- S. B. STINE, Osceola Mills, Pa. See adv., page 17.
- UNION FOUNDRY & MACHINE WORKS, Rockaway. N. J. See adv., page 545.
- VULCAN IRON WORKS, San Francisco, Cal. Sec adv., page 7. WALBURN-SWENSON CO., Chicago, Ill. Sec adv., page 387. WEBSTER, CAMP & LANE MACHINE CO., Akron. Ohio. Sec adv., page 22.

## HOISTING ROPES

- CEO. B. CARPENTER & CO., Chicago, Ill. See adv., page 534.
- RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## HORIZONTAL MINE PUMPS

- (See also Mine Pumps)
- THE COULDS MANUFACTURING CO., Seneca Falls, N.Y. See adv., page 550.

## HOSE STEAM AND AIR

- BOSTON BELTING CO., Boston, Mass. See adv., page 21.
  THE CUTTA PERCHA & RUBBER MANUFACTURING
  CO., Chicago, Ill. See adv., page 9.
- NEW JERSEY CAR SPRING & RUBBER CO., Jersey City, N. J. See adv., page 532.

#### HOT WATER BOILERS

JUSTIN J. PIE & CO., Osceola Mills, Pa. See adv., page 536. S. B. STINE, Osceola Mills, Pa. See adv., page 17.

## HYDRAULIC JACKS

JOSEPH F. McCOY CO., New York, N. Y. See adv., page 544.

## HYDRAULIC MACHINERY

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 543.

## INCANDESCENT LAMPS

- CEORGE CUTTER, Chicago, III. See adv., page 12.

  ELECTRICAL ENCINEERING AND SUPPLY CO., St. Paul.

  Minn. See adv., page 539.
- CENERAL ELECTRIC CO., New York. See adv., page 538.

## **INJECTORS**

- AMERICAN INJECTOR CO., Detroit, Mich. See adv., page 542.
- J. M. EVERHART, Scranton, Pa. See adv., page 544.
- PENBERTHY INJECTOR CO., Detroit, Mich. See adv.,

## INSULATED WIRE AND CABLES

(See also Electric Light Wire)

- CEORCE CUTTER, Chicago, Ill. See adv., page 12.
- EASTERN ELECTRIC CABLE CO., Boston, Mass. See adv., page 539.
- SIMPLEX ELECTRICAL CO., Boston, Mass. See adv., page 539.

#### INVESTMENTS

(Sec also Brokers)

A. P. FENNERTY, Denver, Colo. See adv., page 513. W. F. KENDRICK, Denver, Colo. See adv., page 551.

## IRON AND STEEL BRIDGES

- BERLIN IRON BRIDGE CO., East Berlin, Conn. Our illustrated catalogue sent free.
- BOSTON BRIDGE WORKS, Boston, Mass. See adv., page 532.

  THE KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

#### IRON BUILDINGS

- BERLIN IRON BRIOGE CO., East Berlin, Conn. Our illustrated catalogue sent free.
- BOSTON BRIDGE WORKS, Boston, Mass. See adv., page 532.
- KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

## IRON, STEEL AND HEAVY HARDWARE

KELLEY, MAUS & CO., Chicago, Ill. See adv., page 8. S. D. KIMBARK, Chicago, Ill. See adv., page 8.

## IRRIGATING PLANTS

- THE JAMES LEFFEL & CO., Springfield, Ohio. See adv., toge 532.
- FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.

## IIG MACHINES

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

## **IOURNAL BOXES**

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## LACE LEATHER

(See also Belling)

JEWELL BELTING CO., Hartford, Conn. See adv., page 36

## LAMPS

See Miners' Lamps)

## LEAD BULLION

CHICAGO & AURORA SMELTING & REFINING CO., Chicago and Aurora, Ill. See adv., page 11.

SELBY SMELTING & LEAD CO., Still Francisco, Co., S. adv., page 10.

## LEAD PIPE

SELBY SMELTING & LEAD CO., San Francisc . ( ) See adv., page 19.

## LINK BELT MACHINERY

C. O. BARTLETT, Cleveland, Olno. See adv., page 43.
THE JEFFREY MANUFACTURING CO., Columbus, Olno. See adv., page 4.

F. H. C. MEY, Buffalo, N. V. See adv., page 541.

## LITHOGRAPHERS

WESTERN BANK NOTE CO., Chicago, H. See adv., pag. 550.

## LOCOMOTIVE AND MACHINERY CASTINGS

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio. See adv., page 20.

#### LOCOMOTIVES

See also Mine Lo comotives

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Oldo. See adv., page 20.

H. K. PORTER & CO., Pittsburgh, Pa. See : dv., page 548

## LUBRICANTS

DETROIT CRAPHITE MANUFACTURING CO., Detroit, Much. See adv. page 546.

DETROIT LUBRICATOR CO., Detroit, Mich. See adv., page 540.

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 532.
WADHAMS OIL & CREASE CO., Milwaukee, Wis. See adv., page 5.

## MAGNESIA PIPE COVERING

ROBERT A. KEASBEY, New York, N. Y. see adv., page 547.

## MATHEMATICAL INSTRUMENTS

EUGENE DIETZGEN & CO., Chicato, Ill. Sec adv., page 7.
W. & L. E. CURLEY, Troy, N. V. Sec adv., page 9.
WILLIAM E. STIEREN, Phtsburgh, Ph. Sec adv., page 548.
E. H. SARGENT & CO., Chicato, Ill. Sec adv., page 4.

## MECHANICAL ENGINEERS

CONNOR & CRANT, San Francisco, Cal. See adv., page 9. WATERS BROS., Denver, Colo. See adv., page 9.

## METAL ROOFING

BOSTON BRIDGE WORKS, Boston, Mass. See adv., page 582. CEORCE M. CROSS, Chiego, III. See adv., page 34. KANSAS CITY METAL ROOFING & CORRUGATING CO., Kansas (By. Mo. See adv., page 7.

W. W. MONTAGUE & CO., San Francisco, Cal. See adv., page 5st

## METALLIC PAINT

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 512.

# METALLURGISTS AND METALLURGICAL WORKS AND PROCESSES

RICKETTS & BANKS, New York, N. V. Sec adv., page 44.
ST. LOUIS SAMPLING & TESTING WORKS, St. Louis, Mo. Sec adv., page 546.

## MILLING AND SMELTING MACHINERY

See also Mining and Milling Machinery)

SALT LAKE CITY FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See. dv., page 7

#### MILL MACHINERY

(See Mining and Milling Machinery)

## MILLWRIGHTS

CONNOR & CRANT, San Francisco, Cal. See adv., page 9.

## MINE BROKERS

ARKELL, MAC MILLAN & STEWART, Aspen. Colo. Sce adv., page 14.

J. CHAUVIN, Butte, Mon'. See adv., page 526.

A. P. FENNERTY, Denver, Colo. See adv., page 513.

HAMILTON, LOWE & CO., Chicago, Ill. See adv., page 14. W. F. KENDRICK, Denver, Colo. See adv., page 551.

KISSEL, OTIS & CONNOR, Colorado Springs, Colo. See adv., page 14.

CEORCE R. WOOD, New York City. See adv., page 546.

## MINE CARS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

COPELANO & BACON, Chicago and New York. See adv.,

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio, See adv., page 20.

MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv.,

JUSTIN J. PIE & CO., Oscoda Mills, Pa. See adv., page 536. PROX & BRINKMAN MANUFACTURING CO., Terre

Hante, Ind. See adv., page 535.
RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. See adv., page 536.

S. B. STINE, Osecola Mills, Pa. See adv., page 17.
WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

## MINE CAR WHEELS

(See also Car Wheels)

A. WHITNEY & SONS, Philadelphia, Pa. See adv., page 536.

## MINE DEALERS

(See also Brokers)

ARKELL, MAC MILLAN & STEWART. See adv., page 14.

JAMES A. BOCCS, Dulath, Mann. See adv., page 14.

LEE BURT, Detroit, Mich. See adv., page 546.

J. CHAUVIN, Butte, Mont. See adv., page 526.

A. P. FENNERTY, Denver, Colo. See adv., page 533.

HAMILTON, LOWE & CO., Chicago, Ill. See adv., page 14.

W. F. KENDRICK, Denver, Colo. See adv., page 551.

KISSEL, OTIS & CONNOR, Colorado Springs, Colo. See adv., page 14.

WATERS BROS., Denver, Colo. See adv., page 9. CEORGE R. WOOD, New York, N. Y. See adv., page 546.

## MINE LOCOMOTIVES

CENERAL ELECTRIC CO., New York. See adv., page 538.

JEFFREY MFC. CO., Columbus, Ohio. See adv., page 4.

THE LIMA LOCDMOTIVE & MACHINE CO., Lina. OhioSee adv., page 29.

H. K. PORTER & CO., Pittsburgh, Pa. See adv., page 548.

## MINE PIPE

THE MICHIGAN PIPE CO., Bay City, Mich. See adv., page 15.

A. WYCKOFF & SON, Elmara, N. Y. See adv., page 15.

#### MINE PUMPS

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill.
See adv., page 543.

DEANE STEAM PUMP CO., Holyoke, Mass. See adv., page 543.

EPPINC, CARPENTER & CO., LTD., Pittsburg, Pa. See adv., page 548.

THE CORDON STEAM PUMP CO., Hamilton, Ohio, and Chicago, Ill. See adv. page 543.

THE COULDS MANUFACTURING CO., Seneca Falls, X. Y. See adv., page 350.

UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J. See adv., page 545.

WHEELER & TAPPAN CO., Chicago, Ill. See adv., page 543

## MINE SUPPLIES

EDWARD P. ALLIS CO., Milwaukee, Wis. See adv., page 2.

THE BROWN HOISTING & CONVEYING MACHINE
CO., Cleveland, Ohio. See adv., page 34.

THOMAS CARLIN'S SONS, Allegheny, Pa. See adv., page 13.

CEO. B. CARPENTER & CO., Chicago, Ill. See adv., page 584.

CHICACO IRON WORKS, Chicago, Ill. See adv., page 21.

J. M. EVERHART, Scranton, Pa. See adv., page 544.

CATES IRON WORKS, Chicago, Ill. See adv., page 3.

THE JEFFREY MANUFACTURING CO., Columbus, Ohio. See adv., page 4.

MINERAL RIDGE MANUFACTURING CO., Mineral Ridge, Ohio. See adv., page 28.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 536.

H. K. PORTER & CO., Putsburgh, Pa. See adv., page 548.
QUEEN CITY SUPPLY CO., Cinciunati, Ohio. See adv., page 540.

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

SOMERS, FITLER & CLARKE, Pittsburgh, Pa. See adv., page 548.

UNION IRON WORKS, Sau Francisco, Cal. Sec adv., page 6. WALBURN-SWENSON CO., Chicago, Ill. Sec adv., page 587.

#### MINERAL LANDS

(See also Mine Brokers)

JAMES A. BOCCS, Dututh, Minn. See adv., page 14. LEE BURT, Detroit, Mich. See adv., page 546.

#### MINERAL WOOL

FENLON & CO., Philadelphia, Pa. See adv., page 547.

UNITED STATES MINERAL WOOL CO., New York, N.Y. See adv., page 547.

## MINERS' LAMPS

(See also Safety Lamps)

DEMMLER BROS., Pittsburgh, Pa. See adv., page 548.

J. M. EVERHART, Scranton, Pa. See adv., page 548.

JOSEPH F. McCOY CO., New York, N. V. See adv., page 541.

WM. E. STIEREN, Pattsburgh, Pa. See adv., page 548.

## MINERS' SUPPLIES

MINERS' SUPPLY CO., St. Clair, Pa. See adv., page 534.

THOS. CARLIN'S SONS. Allegheny, Pa. See adv., page 48.

## MINING AND QUARRYING MACHINERY

BOSTON & LOCKPORT BLOCK CO., Boston, Mass. Ser. adv., page 17.

EXCELSIOR IRON WORKS, Cleveland, Ohio. See adv., page

## MINING AND MILLING MACHINERY

AMERICAN MANUFACTURING, MINING & MILLING GO., Cleveland, Ohio. See adv., page 42.

EDWARD P. ALLIS CO., Milwaukee, Wis. Sec adv., page 2. C. W. BADCLEY & CO., Denver, Colo. Sec adv., page 59. C. O. BARTLETT, Cleveland, Ohio. Sec adv., page 13.

THE BECKETT FOUNDRY & MACHINE CO., Arlington, N. J. See adv., page 545.

THE BROWN HOISTING & CONVEYING MACHINE CO., Cleveland, Ohio. See adv., page 34.

CARTER MACNETIC ORE SEPARATOR CO., Brooklyn. N. V. See adv., page 545.

CHICAGO IRON WORKS, Chicago, III. See adv., page 21.
THOS. P. CONARD, Philadelphia, Pa. See adv., page 535.
COPELAND & BACON, Chicago and New York. See adv.

page 585.

CATES IRON WORKS, Chicago, III. See adv., page 3.

CEORGE M. CROSS, Chicago, Ill. Sec adv., page 34.

INCERSOLL-SERCEANT DRILL CO., New York, N. V.

Sounds, page 525.

LITCHFIELD CAR & MACHINE CO., Litchfield, Ill. See adv., page 586.

NORWALK IRON WORKS CO., South Norwalk, Conn. Sec.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page

PARKER, MELCHER & INCRAHAM, Chicago, III. See adv., page 22.

JUSTIN J. PIE & CO., Osecola Mills, Pa. See adv., page 536. RAND DRILL CO., New York and Chicago. See adv., page 20

SALT LAKE CITY FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See adv., page 7. SOMERS, FITLER & CLARKE, Pittsburgh, Pa. See adv., page 548.

S. B. STINE, Osceola Mills, Pa. See adv., page 47.

SULLIVAN MACHINERY CO., Chicago, III. See adv., page 585.
UNION IRON WORKS, San Francisco, Cal. See adv., page 6.
WALBURN-SWENSON CO., Chicago, III. See adv., page 537.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio.
See adv., page 22.

WEBSTER MANUFACTURING CO., Chicago, III. See adv., page 43.

CEORGE D. WHITCOMB, Chicago, Ill. See adv., page 20.

## MINING ENGINEERS

ALFRED CUILLAUME, Chicago, III.—See adv., page 11.

ST. LOUIS SAMPLING & TESTING WORKS, St. Louis,
Mo.—See adv., page 546.

WATERS BROS., Denver, Colo. See adv., page 9.

## MINING PUBLICATIONS

ENGINEERING & MINING JOURNAL. See adv., page 16.
SCIENTIFIC PUBLISHING CO., New York City. See adv., page 16.

## OFFICE SUPPLIES

CILBERT & BENNETT MANUFACTURING CO., New York and Chicago Sec adv., page 527.

THAYER & JACKSON STATIONERY CO., Chicago, Ill. See adv., page 34.

WESTERN BANK NOTE CO., Chleago, III. See adv., page

WYCKOFF, SEAMANS & BENEDICT, Chiengo, III See adv., page 8.

#### OILS

OSTERIOH SUPPLY CO., Pittsburgh, Pa. See adv., page 541.
WADHAMS OIL & CREASE CO., Wilwankee, Wis See adv., page 5

## ORE BROKERS

C. M. CARRISON, Pittsburgh, Pa. See adv., page 10.

## ORE BUCKETS

See also Buckets

THE EXCELSIOR IRON WORKS CO., Cleveland, O. See adv., page 47.

WEBSTER MANUFACTURING CO., Chicago, 411 See adv., page 15

## ORE BUYERS

W. J. CHAMBERLAIN & CO., Denver, Colo. See adv. page 10.

ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 10.

adv., page 36.

## ORE CARS

(See also Mine Cars)

THE LIMA LOCOMOTIVE & MACHINE CO., Lima. Ohio, See adv., page 20.

RUSSEL WHEEL & FOUNDRY CO., Detroit, Mich. See adv., page 536.

## ORE SEPARATORS

BECKETT FOUNDRY & MACHINE WORKS, Arlington, N. J. See adv., page 545.

CARTER MACNETIC ORE SEPARATOR CO., Brooklyn. N. V. See adv., page 545.

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.

## ORE-TESTING WORKS

W. J. CHAMBERLAIN & CO., Denver, Colo. See adv., page to.

RICKETTS & BANKS, New York City. See adv., page 11.

## PACKINGS

(Fibrons and Metallic, See also Rubber Packing)

THE COODSELL PACKING CO., cor. Canal and Washington sts., Chicago, Ill.

THE GUTTA PERCHA & RUBBER MANUFACTURING CO., Chiengo, Ill. See adv., page 9.

RANDOLPH BRANDT, New York City. See adv., page 547.

## PAINTS

McCLINTOCK & IRVINE, Allegheny, Pa. See adv., page 532.

## PATENT SOLICITORS

DAYTON, POOLE & BROWN, Cheago, Ill. See adv., page 12.

## PERFORATED METALS

ROBERT AITCHISON PERFORATED METAL Co., Chicago, III. See adv., page 9.

CHICACO IRON WORKS, Cheago, Ill. See adv., page 21.

CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.

MUNDT & SONS, New York City. See adv., page 527.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page 537.

## PICKS AND SHOVELS

KELLEY, MAUS & CO., Chicago, III. See adv., page 8.
S. D. KIMBARK, Chicago, III. See adv., page 8.

## PIG LEAD

C. M. CARRISON, Pittsburgh, Pa. See adv., page 10.

## PIG TIN

C. M. CARRISON, Pittsburgh, Pa. See adv., page 10.

## PIPE AND BOILER COVERINGS

(See also Wood Steam-Pipe Covering)

FENLON & CO., Philadelphia, Pa. See adv., page 547.
H. W. JOHNS MANUFACTURING CO., Chicago, III. See adv., page 547.

ROBERT A. KEASBEY, New York, N. Y. See adv., page 547.

UNITED STATES MINERAL WOOL CO., New York, N. Y., See adv., page 547.

## PIPES-WOOD

MICHIGAN PIPE CO., Bay City, Mich. See adv., page 15.

A. WYCKOFF & SON, Elmira, N. Y. See adv., page 15.

## PIT CARS

(See also Cars)

J. HERBERTSON'S SONS, Brownsville, Pa. See adv., page 542.

## PORTABLE PUMPS

(See also Pumps)

THE COULDS MANUFACTURING CO., Senera Falls, N.Y. See adv., page 550

## POWDER

ACME POWDER CO., Pittsburgh, Pa. See adv., page 54s. ÆTNA POWDER CO., Chicago, Ill. See adv., page 54s. ARTHUR KIRK & SON, Pittsburgh, Pa. See adv., page 54s.

## POWER TRANSMISSION.

CHICAGO SHAFTING & PULLEY CO., Chicago, III. See adv., page 541.

GENERAL ELECTRIC CO., New York City. See adv., page 538.

JENNEY ELECTRIC MOTOR CO., Indianapolis, Ind. See adv., page 539.

RICE MACHINERY CO., Chicago, Ill. Sec adv., page 511.
WEBSTER MANUFACTURING CO., Chicago, Ill. Sec adv., page 13.

## PRINTING

THAYER & JACKSON STATIONERY CO., Chicago, Ill. See adv., page 34.

## PROSPECTING DRILLS.

PENNSYLVANIA DIAMOND DRILL & MANUFACTUR-INC CO., Birdsboro, Pa. See adv., page 545.

SULLIVAN MACHINERY CO., Chicago, Ill. Sec adv., page 535, WALBURN-SWENSON CO., Chicago, Ill. Sec adv., page 537.

## PULLEYS.

(See also Shafting and Pulleys)

CHICAGO IRON WORKS, Chicago, III. See adv., page 21. RICE MACHINERY CO., Chicago, III. See adv., page 541.

#### PULVERIZERS.

EDWARD P. ALLIS CO., Mdwankee, Wis. See adv., page 2.

AMERICAN MANUFACTURING, MINING & MILLING CO., Cleveland, Ohio. See adv., page 12.

BRADLEY FERTILIZER CO., Boston, Mass. See adv., page 12 CHICAGO IRON WORKS, Chicago, Hl. See adv., page 21. CATES IRON WORKS, Chicago, Hl. See adv. page 3.

RAYMOND BROS. IMPACT PULVERIZER CO., Cheage. III. See adv., page 31.

STURTEVANT MILL CO., Boston, Mass. See adv., page 525.

## PUMP GOVERNORS

WHEELER & TAPPAN CO., Chicago, Ill. Sec adv., page 513.

## PUMPS

See also Steam Pumps)

EDWARD P. ALLIS CO., Milwankee, Wis. See adv., page 2. ÆTNA FOUNDRY & MACHINE CO., Springfleld, Ill. See adv., page 50.

CHICAGO IRON WORKS, Chicago, III. See adv., page 21.

DEANE STEAM PUMP CO., Holyoke, Mass. See adv.

page 543.

EPPING, CARPENTER & CO., LTD., Pittsburg, Pa. See

adv., page 548,

CENERAL ELECTRIC CO., New York City Seconds., page 548.

THE CORDON STEAM PUMP CO., Hamilton, Ohio, and Cheago, Ill. Seconds., page 548.

THE COULDS MANUFACTURING CO., Seneca Falls, N.Y. See adv., page 550.

NORWALK IRON WORKS CO., South Norwalk, Conn. Soc. adv., page 36.

OSTERLOH SUPPLY CO., Pittsburgh, Pa. See adv., page 54.
THE P. H. & F. M. ROOTS CO., Connersville, Ind. See adv., page 550.

UNION IRON WORKS, San Francisco, Cal. See adv., page 6, VULCAN IRON WORKS, San Francisco, Cal. See adv., 1932; 7

WEBSTER, CAMP & LANE MACHINE CO., Akron. Ohio. See adv., page =

WHEELER & TAPPAN CO., Cheago, III. Secondy, page 54a

## QUARRYING MACHINERY

EDWARD P. ALLIS CO., Mdwanke . Wis See a Iv. page 2 THOMAS CARLIN'S SONS, Allegheny, Pa. See adv., page 13 COPELAND & BACON, Chicago and New York. See adv.

CATES IRON WORKS, Chicago, Ill. Sec adv., page 3.

INCERSOLL-SERCEANT DRILL CO., New York, N. Y. Sec adv., page 35.

ARTHUR KIRK & SON., Pittsburgh, Pa. See adv., page 548.

LEEDS MANUFACTURING CO., Chicago, III. See adv. page 545.

LITCHFIELD CAR & MACHINE CO., Litchfield, III. See adv., page 546.

NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.

PARKER, MELCHER & INCRAHAM, Chicago, Ell. See adv.,

RAND DRILL CO., New York and Cheago. See adv., page 20.

SULLIVAN MACHINERY CO., Chicago. Ill. See adv.

WALBURN-SWENSON CO., Chicago, III. See adv., page 387.
WEBSTER, CAMP & LANE MACHINE CO., Akron, Ohio, See adv., page 22.

## **OUARRY SUPPLIES**

See also Quarrying Machinery

MINERS' SUPPLY CO., St. Clair, Pa. See adv., page 531
QUEEN CITY SUPPLY CO., Chemnati, Olio. See adv.
page 549.

#### RAILS

S. D. KIMBARK, Chicago, 411 Secondy., page 8.

## RAILWAY SUPPLIES AND EQUIPMENT

THOMAS CARLIN'S SONS, Allegheny, Pa. See adv., page 18.

JOSEPH F. McCOY CO., New York, N.Y. See adv., page 544.

OSTERLOH SUPPLY CO., Pattsburgh, Pa. See adv., page
541.

RAILWAY EQUIPMENT CO., Chicago, Ill. Sec adv., page 28. CEORGE R. WOOD, New York City. Sec adv., page 516.

## REDUCTION WORKS

ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 10.

WALBURN-SWENSON CO., Chicago, Ill. Seleady., page 537

## ROCK CRUSHERS.

See Crushe's)

## ROCK DRILLS

CHICACO IRON WORKS, Cheago, III. See adv., page 21. INCERSOLL-SERGEANT DRILL CO., New York, N. V. See adv., page 540.

PARKER, MELCHER & INCRAHAM, Chengo, III. See adv., page 22

PENNSYLVANIA DIAMOND DRILL & MANUFACTUR-ING CO., Birdsboro, Pa. See adv., page 545

RAND DRILL CD., New York and Chicago. See adv., page 20. SULLIVAN MACHINERY CO., Chicago, III. See adv., page 585.

## ROCK EMERY MILLSTONES

STURTEVANT MILL CO., Bostoli, Mass. Sec. adv., page 525.

## ROLL SHELLS

CHROME STEEL WORKS, Brooklyn, N. Y. See adv., page 541

## ROOFS

BERLIN IRON BRIDGE CO., East Berlin, Conn. Our illustrated catalogue sent free.

CEO. M. CROSS, Chicago, III. See adv., page 34.

## ROPE TRAMWAYS

(Seo also Cable Tramways)

C. W. BAUCLEY & CO., Denver, Colo. See adv., page 549.

## ROPE TRANSMISSION

(Dødge System. See also Power Transmission)

RICE MACHINERY CO., Chicago, Ill. See adv., page 541.

## RUBBER GOODS

BOSTON BELTING CO., Boston Mass. See adv., page 21.
THE CUTTA PERCHA & RUBBER MANUFACTURING CO., Chicago, III. See adv., page 9.

NEW JERSEY CAR SPRING & RUBBER CO., Jersey City, N. J. See adv., page 582.

## RUBBER HOSE

THE CUTTA PERCHA & RUBBER MANUFACTUR-INC CO., Chicago, Ill. See adv., page 9.

NEW JERSEY CAR SPRING & RUBBER CO., Jersey City, N. J. See adv., page 582.

## RUBBER PACKING

BOSTON BELTING CO., Boston, Mass. See adv., page 21.

## SAFETY LAMPS

DEMMLER BROS., Pittsburgh, Pa. See adv., page 548.

J. M. EVERHART, Scranton, Pa. See adv., page 548.

JOSEPH F. McCOV CO., New York, N. Y. See adv., page 544.

WILLIAM E. STIEREN, Pittsburgh, Pa. See adv., page 548.

## SAFETY SQUIBS

MINERS' SUPPLY CO., St. Clair, Pa. Sec adv., page 534.

## SAMPLING WORKS

W. J. CHAMBERLAIN & CO., Denver, Colo. See adv., page

RICKETTS & BANKS, New York City. See adv., page 11.

ST. LOUIS SAMPLING & TESTING WORKS, St. Louis,
Mo. See adv., page 546.

WALBURN-SWENSON CO., Chicago, Ill. See adv., page

## SCIENTIFIC PUBLICATIONS

W. & L. E. GURLEY, Troy, N. Y. See adv., page 9.
E. H. SARGENT & CO., Chicago, III. See adv., page 4.
SCIENTIFIC PUBLISHING CO., New York City. See adv., page 16.

#### SCREEN PLATES

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.

#### SCREENS

ROBERT AITCHISON PERFORATED METAL CO., Chicago, Ill. Sec adv., page 9.

CHICAGO IRON WORKS, Chicago, III. See adv., page 21. CLINTON WIRE CLOTH CO., Clinton, Mass. See adv.,

EASTWOOD WIRE MANUFACTURING CO., Belleville, N. J. See adv., page 526.

CILBERT & BENNETT MANUFACTURING CO., New York and Chicago. See adv., page 527.

HOWARD & MORSE, New York City. See adv., page 527. MUNDT & SONS, New York City. See adv., page 527.

PHILLIPS MINE SUPPLY CO., Pittsburgh, Pa. See adv., page 596.

PROX & BRINKMAN MANUFACTURING CO., Terre Hunte, Ind. See adv., page 536.

THE PHŒNIX WIRE WORKS, Detroit, Mich. See adv., page 9.

UNION FOUNDRY & MACHINE WORKS, Rockaway, N. J. See adv., page 545.
WALBURN-SWENSON CO., Chicago, Ill. See adv., page 587.

## SECOND-HAND MINING MACHINERY

THOS. P. CONARD, Philadelphia, Pa. See adv., page 535.

## SHAFT PUMPS

(See also Pumps)

THE COULDS MANUFACTURING CO., Seneca Falls, N. V. See adv., page 550.

## SHAFTING AND PULLEYS

CHICAGO IRON WORKS, Chicago, Ill. See adv., page 21.
CHICAGO SHAFTING & PULLEY CO., Chicago, Ill. See adv., page 511.

DAYTON CLOBE IRON WORKS CO., Dayton, Ohio, See adv., page 14.

RICE MACHINERY CO., Chicago, III. See adv., page 541.
WALBURN-SWENSON CO., Chicago, III. See adv., page 537.

## SHEET-IRON AND STEEL PIPE

W. W. MONTACUE & CO., San Francisco, Cal. See adv., page 527.

FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.

## SHEET-IRON WORKS

SCIOTO BOILER WORKS, Columbus, Ohio. See adv., page 540.

## SHEET LEAD

SELBY SMELTING & LEAD CO., San Francisco, Cal. See adv., page 10.

## SHOES AND DIES

CHICAGO IRON WORKS, Cheago, III. See adv., page 21.
CHROME STEEL WORKS, Brooklyn, N. V. See adv., page 544.
A. WHITNEY & SONS, Philadelphia, Ph. See adv., page 586.

## SINKING PUMPS

See also Pumps)

THE COULDS MANUFACTURING CO., Seneca Falls, N. V. See adv., page 550.

## SLACK REMOVERS

THE P. H. & F. M. ROOTS CO., Connersville, Ind. See adv., page 550.

## SMELTERS AND REFINERS

- CHICAGO & AURORA SMELTING & REFINING CO., Chicago and Aurora, III. See adv., page 11.
- CHICAGO COPPER REFINING CO., Chicago, Ill. See adv., page 4t.
- NATIONAL SMELTING & REFINING CO., Chicago, III. See adv., page 546.
- ST. LOUIS SMELTING & REFINING CO., St. Louis, Mo. See adv., page 10.
- SELBY SMELTING & LEAD CO., San Francisco, Cal. See adv., page 10.

## SPELTER AND ANTIMONY

C. M. CARRISON, Pittsburgh, Pa. See adv., page 10.

## STAMP MILLS

- EDWARD P. ALLIS CO., Wilwankee, Wis. See adv., page 2
- THE BECKETT FOUNDRY & MACHINE CO., Arlungton, N. J. See adv., page 545.
- CHICACO IRON WORKS, Chicago, III.—See adv., page 21.
  CATES IRON WORKS, Chicago, III.—See adv., page 3.
  UNION IRON WORKS, San Francisco, Cal.—see adv., page 6

VULCAN IRON WORKS, San Francisco, Cal. See adv., page 7.
WALBURN-SWENSON CO., Chicago, III. See adv., page 337.

## STATIONERY

THAYER & JACKSON STATIONERY CO., Chicago, Ill. Sec adv., page 34.

## STEAM AND HOT WATER PLANTS

NEW YORK DOMESTIC GAS MACHINE CO., New York, N. Y. See adv., page 20.

## STEAM ENGINES

- EDWARD P. ALLIS CO., Milwankee, Wis. See adv., page 2.
  THE BECKETT FOUNDRY AND MACHINE CO., Arlington, N. J. See adv., page 545.
- CHANGLER & TAYLOR CO., Indianapolis, Ind. See adv., page 542.
- CHICACO IRON WORKS, Chicago, Ill.—See adv., page 21.

  J. HEBERTSON'S SONS, Brownsville, Pa.—See adv., page
- NORWALK IRON WORKS CO., South Norwalk, Conn. See adv., page 36.
- OSTERIOH SUPPLY CO., Piltsburgh, Pa. See adv., page 541.
  PRIESTMAN & CO., Philadelphia, Pa. See adv., page 539.
  SCIOTO BOILER WORKS, Columbus. Ohio. See adv., page 540.
- WEBSTER, CAMP & LANE MACHINE CO., Akron. Ohio See adv., page 22.

## STEAM PACKINGS

See Packings

## STEAM PUMPS

See also Pumps

- EDWARD P. ALLIS CO., Wilwankee, Wis. See adv., page ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 543
- CHICAGO IRON WORKS, Chicago, IR. See adv., page 21
- DEANE STEAM PUMP Co., Holyoke, Mass. See adv., page 56.
- EPPING, CARPENTER & CO., LTD., Pillsburgh, Pa. See adv., page 54s.
  THE CORDON STEAM PUMP CO., Hamilton, Ohio, and
- Chicago, Ill. Sec adv., page 543.

  NORWALK IRON WORKS CO., South Norwalk, Conn. Sec
- adv., page
  PARKER, MELCHER & INCRAHAM, Chicago, Ill. See
- adv., page : \*
  SCIOTO BOILER WORKS, Columbus, Ohio. See adv..
- VULCAN IRON WORKS, Sau Francisco, Cal. See adv..
- WALBURN-SWENSON CO., Chicago, Ill. See adv., page .st7
  WEBSTER, CAMP & LANE MACHINE CO., Akron,
  Olno, See adv., page 22
- WHEELER & TAPPAN CO., Chicago, Hl. Sec adv., page 743

## STEAM SHOVELS

JOHN SOUTHER & CO., Boston, Mass. See adv., page 332

## STEEL AND IRON SHAFTING

See also Shafting and Pulleys

RICE MACHINERY CO., Chicago, Ill. See adv., page 541

## STEEL RAILS

KELLEY, MAUS & CO., Cheago, Ill. See adv., page s.

## STOCK CERTIFICATES

WESTERN BANK NOTE CO., Chicago, Ill. See adv., page 550.

## STONE BARROWS

(See also Wheetbarrows)

THE KILBOURNE & JACOBS MANUFACTURING CO., Columbus, Ohio. See adv., page 544.

## STONE CHANNELERS

(See also Quarrying Machinery)

LEEDS MANUFACTURING CO., Chicago, III. See adv., page 545.

PARKER, MELCHER & INGRAHAM, Chicago, Ill. See adv., page 22.

SULLIVAN MACHINERY CO., Chicago, III. See adv., page 585.

## STONE MACHINERY

(See also Quarrying Machinery)

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 545.

## STRUCTURAL METAL WORK

KING BRIDGE CO., Cleveland, Ohio. See adv., page 28.

# SURVEYORS' INSTRUMENTS AND SUPPLIES

(See also Mathematical Instruments)

EUGENE DIETZGEN & CO., Chicago, Ill.—See adv., page 7, W. & L. E. CURLEY, Troy, N. Y.—See adv., page 9.

## TACKLE BLOCKS

BOSTON & LOCKPORT BLOCK CO., Boston, Mass. See adv., page 17.

CEO. B. CARPENTER & CO., Chicago, III. See adv., page 5.4.

## TOOLS

KELLEY, MAUS & CO., Chicago, Hl. See adv., page 8.

## THROTTLE VALVES

DETROIT LUBRICATOR CO., Detroit, Mich. Sec adv., page 540.

## TRAMWAYS.

See Cable Trainways)

#### TRAVELERS

LEEDS MANUFACTURING CO., Chicago, Ill. See adv., page 515.

## TRUCK PUMPS

(See also Pumps)

THE COULDS MANUFACTURING CO., Senera Falls, N.Y. See adv., page 550.

## TUBULAR STEEL BARROWS

(See also Wheelbarrows)

THE KILBOURNE & JACOBS MANUFACTURING CO., Columbus, Ohio. See adv., page 544.

## TURBINE WHEELS

DAYTON CLOBE IRON WORKS CO., Dayton, Ohio. See adv., page 14.

THE JAMES LEFFEL & CO., Springfield, Ohio. See adv., page 532.

## TWINES AND CORDAGE

CEO. B. CARPENTER & CO., Chicago, III. See adv. page 584.

#### TYPEWRITERS

WYCKOFF, SEAMANS & BENEDICT, Cheago, III. See adv., page 8.

## TYPEWRITERS' SUPPLIES

WYCKOFF, SEAMANS & BENEDICT, Chicago, Ill. See adv., page 8.

#### VALVES

ÆTNA FOUNDRY & MACHINE CO., Springfield, Ill. See adv., page 540.

DETROIT LUBRICATOR CO., Detroit, Much. See adv., page 540.

SALT LAKE FOUNDRY & MANUFACTURING CO., Salt Lake City, Utah. See adv., page 7.

#### VENTILATING FANS

CHICAGO WATER MOTOR CO., Chicago, Ill. See adv., page 541.

## VENTILATORS

CENERAL ELECTRIC CO., New York City, See adv., page 538.

## WATER ENGINES OR MOTORS

(See also Water Wheels)

CHICAGO WATER MOTOR CO., Chicago, Ill., See adv., page 541.

## WATER GAUGES

WILLIAM E. STIEREN, Pattsburgh, Pa. See adv., page 548.

## WATER PIPE

THE MICHICAN PIPE CO., Bay City, Mich. See adv., page 45.

FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.

A. WYCKOFF & SON, Elmira, N. V. See adv., page 15.

## WATER PURIFIERS

FIELD FEED WATER PURIFIER CO., Chicago, III. Sec adv., page 535.

HOPPES MANUFACTURING CO., Springfield, Ohio. Sec. adv., page 539.

KROESCHELLS & BOURCEOIS, Chicago, III. See adv., page 540.

CEO. W. LORD, Philadelphia, Pa. See adv., page 545.
THE STIRLING CO., Chicago, Ill. See adv., page 545.

## WATER TUBE BOILERS

THE STIRLING CO., Chicago, Ill. Sec adv., page 542.

## WATER WHEELS

CHICACO WATER MOTOR CO., Cheago, Ill. Sec. My-

DAYTON CLOBE IRON WORKS CO., Dayton, Ohio. See adv., page 11.

THE JAMES LEFFEL & CO., Springfield, Ohio. See july.

UNION IRON WORKS, Sin Francisco, Cal. See adv. page 6.

## WATER WORKS

MICHICAN PIPE CO., Bay City, Mich. Sec adv., page 15.

## WELL-DRILLING MACHINERY

WALBURN-SWENSON CO., Chie go, Ill. See adv., page 5.6.

## WELL PIPE

See also Water Pipe

FRANCIS SMITH & CO., San Francisco, Cal. See adv., page 15.

## WHEELBARROWS

THE KILBOURNE & JACOBS MANUFACTURING CO., Calumbus, Ohio. See adv., page 544.

S. D. KIMBARK, Chicago, Ill. Sec adv., page 8.

## WIRE CLOTH

CLINTON WIRE CLOTH CO., Clinton, Mass. See adv., page 8.

EASTWOOD WIRE MANUFACTURING CO., Belleville, N. J. See adv., page 526.

CILBERT & BENNETT MANUFACTURING CO., New York and Cheago. See adv., page 527.

HOWARD & MORSE, New York City. See adv., page 527.

THE PHŒNIX WIRE WORKS, Detroit, Mich. See adv.,

WALBURN-SWENSON CO., Chiergo, III. See adv., page 537.

## WIRE FENCING

KANSAS CITY METAL ROOFING & CORRUCATING CO., Kansas City, Mo. Secondy, page 7

## WIRE ROPE

Secolore (ble Transvers

C. W. BADCLEY & CO., Univer, Colo. Sec adv., page 549.
CEO. B. CAPPENTER & CO., Chiergo, III. Sec adv., page 549.

OSTERLOH SUPPLY CO., Pattsburgh, Pa. Secody., page 541.

## WOOD STEAM-PIPE COVERING

MICHICAN PIPE CO., Bay City, Mich. Sociady, page 15.

A. WYCKOFF & SON, Elmira, N. V. Seciady, page 15.

## WOOD WATER-PIPE

MICHICAN PIPE CO., Bay City, Mich. Sec adv., page 15.

A. WYCKOFF & SON, Elmire, N. V. Sec adv., page 15.



## MINING LAWS

# THE UNITED STATES OF AMERICA

## AND REGULATIONS THEREUNDER

1592

SECTION 2818, MINERAL LANDS RESERVED.—In all cases hands valuable for minerals shall be reserved from sale, except as otherwise expressly directed by law. [4-July, 1806, c, 166, 8, 5, 7, 14, p, 86].

SEC, 2819, MINERAL LANDS OPEN TO PURHASE BY UTILIZENS. All valuable inineral deposits in lands belonging to the control of the free and open covoloration and purchase, by citizens of the United States and those who have declared their intention to become such, under regulations prescribed by law, and according to the local customs or rules of miners in the several mining districts, so far as the same are applicable and not inconsistent with the laws of the United States, [10 May, 1822, c, 1522, s. 1, v. 3, 862, 2320, Levisoria or MINING CLAIMS UPON VELSON SEC, 2320, Levisoria or MINING CLAIMS SEC, 2320, Levisoria or MINING CLAIMS UPON VELSON SEC, 2321, Levisoria or MINING CLAIMS SEC, 2321, PROOF OF CITIZIASHTP, Proof of citizenship, and the charm located. No claim shall cetted more than three hundred feet on each side of the middle of the vein at the surface, except where adverse rights existing on the loth day of May, 1872, renders such limitation necessary. The end-lines of cach claim shall be parallel to cach other. 19May, 1872, c, 152, 8-8, v, 17, p, 341.

Sec, 2321, Proof of CITIZIASHTP, Proof of citizenship, mader this chapter, may consist, in the case of an individual, of the surf

surface of a claim owned or possessed by another. [10, May, rese, 152, 8, 3, 17, p. 91.]

SEC, 223. OWNERS OF TENELS, RIGHTS OF, Where a funcie is run for the development of a vein or lode, or for the discovery of mines, the owners of such tunnel shall have the right of possession of all veins or lodes within three thousand feet from the face of such tunnel on the line thereof, not previously known to exist, discovered in such tunnel, to the same extent as if discovered from the surface; and locations on the line of such tunnel of veins or lodes not appearing on the surface, made by other parties after the commencement of the tunnel,

and while the same is being prosecuted with reasonable diligence, shall be invalid; but failure to prosecute the work on
the tunnel for six months shall be considered as an albandoment
of the right to all undiscovered veins on the line of such tunnel.
[10 May, 1872, c. 162, s. 4, v. 17, p. 29.]

86c, 2223. Refet LVTIONS MADE BY MINERS. The miners of
each mining district may make regulations not in conflict with
referritory which the Softes, or with the laws of the state of
each mining district may make regulations not in conflict with
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territory which the Softes, or with the laws of the state of
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The location must be distinctly marked on the ground so that its
theolate of the location, and such a description of the claim or
the date of the location, and such a description of the claim or
after the loth day of May, 1872, and escent claim or
differ the loth day of May, 1872. Sio worth of labor shall be performed or
improvements made during each year, On all claims located
prior to the 10th day of May, 1872. Sio worth of labor shall be
performed or improvements made by the toth day of June, 1874,
and each year thereafter, for each one hundred peet in length
such claims are held in common, such expenditure may be made
upon any one claim; and upon a failure to comply with these
conditions, the claim or mine upon which such failure occurred
shall be open to re-location in the same manner as if no location
of the same had ever been made, provided that the original
locators, their heirs, assigns or legal representatives, have not resumed work upon the chaim after failure and before such location,
he proportion of the expenditures required bereful to the owner,
who have performed the labor or made the improvements may,
at th

in the patent. At the expiration of the sixty days of publication the claimant shall file his affidavit, showing that the plat and notice have been posted in a conspicuous pince on the claim during such period of publication. If no adverse claim shall faint some period of publication, if no adverse claim shall faint-office at the expiration of the sixty days of publication, is shall be assumed that the applicant is entitled to a patent, upon the payment to the proper officer of Soperacre, and that no adverse claim exists; and thereafter no objection from third parties to the issuance of a patent shall be heard, except it be shown that the applicant has failed to comply with the terms of this chapter.

Sec. 2328. Adverses CLAMA, PROCEDIAGE ON.—Where an adverse claim is filed during the period of publication, it shall be upon oath of the person or persons making the same, and shall show the nature, boundaries and extent of such adverse claim, and all proceedings, except the publication of notice and making and filing of the affidavit thereof, shall be stayed until the conjector) prisidelion, or the adverse claim waived. It shall be dury of the adverse claimant, within thirty days after filing his claim, to commence proceedings in a court of competent jurisdiction, to determine the question of the right of possession, and prosecute the same with reasonable diligence to final judgment; and a rather such higgment shall have been routered, the part world and a rather such higgment shall have been routered, the party of the right of our principal control of the right of the party of t and a failure so to do shall be a waiver of his adverse claim. After such ingeneral shall have a waiver of his adverse claim. After such ingeneral shall have a waiver of his adverse claim. After such ingeneral shall have a waiver of his adverse claim. After such ingeneral shall have any portroot there a may waited the such as a such a

location of any such patented canna. The analysis of the T.T., D. St. J. Pending Applications; Existing Rights.—Applications for patents for mining claims under former laws now pending may be prosecuted to a final decision in the general land-office; but in such cases where adverse rights are not affected thereby, patents may issue in pursuance of the provisions of this chapter; and all patents for mining claims understoned by the privileges conferred by this chapter averaged with the rights and privileges conferred by this chapter where no adverse rights existed on the 10th day of May, 1872. [10 May, 1872, c. 152, s. 3, 3. 3, 3, 3, 4, 4, 4].

privileges conferred by Hils chapter where the con-existed on the 10th day of May, 1872. [10 May, 1872, c. 152, s. 9, v. 17, p. 94.]

SEC, 2829. CHYPOLINITY OF PLACER CLAIMS TO SURVEYS, 1840, 2829. CHYPOLINITY OF PLACER CLAIMS TO SURVEYS, 1840, 2829. CHYPOLINITY OF PLACER CLAIMS TO SURVEYS, 1840, 2829. CHYPOLINITY OF PLACER CLAIMS TO SURVEYS, 1841, 2829. CHYPOLINITY OF THE SURVEYS OF THE PLACER CLAIMS 1841, 2829. CHYPOLINITY OF THE SURVEYS OF THE PLACER CLAIMS TO 1841, 2829. CHYPOLINITY OF THE SURVEYS OF THE PLACER CLAIMS TO 1841, 2829. CHYPOLINITY OF THE SURVEYS OF THE PLACER CLAIMS TO 1841, 2829. CHYPOLINITY OF THE PLACER CLAIMS OF THE P

emption or boused-end chain upon agricultural lands, or authorize the sale of the improvements of any bona fide settler to any pur-eliaser. [9 July, 1870, e, 235, s. 12, V. 16, p. 217.] SEC, 2331, CONFORMATY OF PLACHECLAIMS TO SURVEYS; LIMITATION OF CLAIMS.—Where placer claims are upon sur-veyed land, and conform to legal subdivisions, no turther survey or plat shall be required, and all placer mining claims located after the both day of May, 1872, shall conform as near as practicable with the United States system of public-land surveys, and the rectangular subdivisions of such surveys, and no such location and the surveys of the surveys of the surveys and the divisions, survey and plat shall be made as on mosurveyed lands, and where by the segregation of mineral bands in any legal subdivision a quantity of agricultural land less than forty acres remains, such fractional portion of agricultural land may

be entered by any party qualified by law, nor home-tend or precuption purposes. 10 May, 1872, c. 132, 8, 10, 3, 17, p. 94.]

80, 232, What Evidence of Spossession, Kirc, to Establish and the state of the state of

therming at the space of intersection. [10 Mary, 1822, c. 152, 8.14, 154]. The space of intersection of the vein or lode is used or occupied by the proprietor of such vein or lode is used or milling purposes, such non-adjacent surface ground may be empreced and included in an application for a patient for such vein or lode, and the same may be patiented therewith, subject to the same preliminary requirements as a survey and notice as are such non-adjacent land shall exceed five acres, and payment for the same mast be made at the same rate as fixed by this chapter for the superficies of the lode. The owner of a quartz-mill or reduction-works, not owning a mine in connection therewith, nay also receive a patent for his mill-site, as provided in this section. [10 May, 1872, 152, 8, 15.4, 15, 16, 16].

LOCAL LEGISLAYTER—As a condition of sale, in the absence of necessary tegislation by congress, the local legislature of any state of territory may provide rules for working mines, involving

easements, drainage and other necessary means to their complete development, and those conditions shall be inly expressed in the patient, [26-July, 1856, e. 228, 2.5, v. 4, b. p. 25].

See, 2539. VESTED RIGHTS TO USE OF WAYER FOR JUNIONS, EASE, 2539. WESTED RIGHTS TO USE OF WAYER FOR JUNIONS, EASE, 2530. The profit of the last of water for mining, agricultural, manufacturing or other purposes have vested and accuract, and mining the same are recognized and acknowleged by the local enstance has an expression of courts, the possessors and owners of such vested rights shall be maintained and protected in the same; and the right of way for the construction of directs and emails of the purposes herein-specified is acknowledged and confirmed, in the proposes herein-specified is acknowledged and confirmed domain, the party committing such inpry or damage. [26-July, 1850, c. 28, 2, 34, 4, 12, 34]. PRE-EMPTIOSS AND HOMESTEANS EARS EARCH, PATENTS, PRE-EMPTIOSS AND HOMESTEAN SEA ADJULY AND ACCURACY AND HOMESTEAN AND ACCURACY AND ACCURACY

#### REPEAL PROVISIONS.

SECTION 5295. WHAT REVISED STATUTES EMBRACE. The foregoing seventy-three files embrace the statutes of the United States general and permanent in their nature, in force on the st day of December, 1873, as revised and consolidated by commissioners appointed under an act of congress, and the same shall be designated and cited as The Revised Statutes of the United State.

States.

SBC.3505. REPEAL OF ACTS EMBRACED IN REVISION. All acts of congress bassed prior to said 1st day of December, 1873, any portion of which is embraced in any section of said revision, are hereby repealed and the section applicable thereto shall be increed in the therefor all parts of such acts not contained in such revision having been repealed or superseded by subsequent acts or not being general and permanent in their nature. Provided, that the incorporation into such revision of any general and permanent provision, taken from an act making appropriations or from an act containing other provisions of a private, local or

temporary character, shall not repeal or in any way affect any appropriation or any provision of a private, local or temporary character, contained in any of said acts, but the same shall remain in force; and all acts of congress passed prior to said lastnamed day, no part of which are embraced in said revision, shall not be affected or changed by its onetiment.

SEC. 5597. ACCILED RIGHTS RESERVED. The repeal of the several acts embraced in said revision shall not affect any act done or any right accruning or accuract or any surfer proceeding all rights and liabilities under said acts shall continue and may be enforced in the same manner as it said repeal had not been made, nor shall said repeal in any manner affect the right to any office or change the term or tenure thereof.

SEC. 568. Prosset THOSE VED PLYSISIDETES. All offenses committed and all penulise or toffentures mentred under any struct; embraced in said revision proof to said repeal any bepresented and punished in the same manner and with the same structs and proceedings of others of the prosecution of otherses or to the recovery of penalty or for the prosecution of otherses or to the recovery of penalty or presentions, whether applicable to crivican estand proceedings or presentions, whether evid or criminal, for causes arising or acts done or committee prior to said repeal, may be enumerated and prosecution within the same time as if said repeal had not becoming.

SEC. 568. The arrangement and elastication of the several Sections of the revision have been made for the purpose of a more convenient and orderly errangement of the same, and therefore no milet use or prosmitted that the under which any particular section is placed.

SEC. 560.

Approved June 22, 186.

We Are to amend the act entitled "An act to promote the development of the mining resources of the United States," passed May 10, 1872.

Be it smarted by the Senate and House of Representatives of the United States of America in Congress assembled, That the provisions of the lifth section of the act entitled "An act to promote the development of the uning resources of the United States," passed May 10, 1872, which requires expenditures of the Linden and the Congress of the United States, "passed May 10, 1872, which requires expenditures of the Linden and the Congress of the United States," passed May 10, 1872, which requires expenditures of the Linden and the Congress of the United States, and the Congress of the United States, and the Congress of the United States, and the Congress of the United States of the Congress of the

Approved dime 6, 1844–1853at., of 3. Av. et a. Commend Section 2343 of the revised statutes, relating to the development of the mining resources of the United States. Be it emacted by the Senate and House of Representatives of the United States, of America in Congress assembled, That Section 19 and 19 are the property of the Congress of the Congres

Approved reduction 11, 130 (Schul, and Kansas from the provisions of the act of congress entitled "An act to pomotic the development of the mining resources of the United States," approved May 10, 1872.

Be it enacted by the senate and House of Representatives of the United States of America in Congress assembled. What with an the states of Missouri and Kansas deposits of each iron, lead or other mining and and sansas deposits of each iron, lead or other mining resources of the United States," approved May 10, 1872, and all lands in said states shall be subject to disposal as agricultural lands.

Approved May 3, 1876–19 81at., 52).

Approved May 5, 1876, 19 81at., 52).

As As rathorizing the eitigens of Colorado, Newada and the territories to fed and remove (inher on the public domain for mining and domestic purposes).

Be it enacted by the Schafe and House of Representatives of the United States of America in Congress assembled, That all citizens of the United States and other persons, born fide resistents of the United States and other persons, born fide resistents of New Mexico, Artzona, United Synding, Dickota, lightest of New Mexico, Artzona, United Synding, Dickota, lightest of New Mexico, Artzona, United States should be and are hereby authorized and permitted to fell and remove, for building, agricultural, mining or other domestic purposes, any limber or other trees growing or being on the public lands, said lands being mineral, and not subject to entry under existing laws of the United States except for majoral entry, in or persons may be at the time boug hot residents, subject to such presents in the protection of the timber and of the undergrowth.

growing upon such lands, and for other purposes: Provided, the provisions of this act shall not extend to railroad corporations.

Sec. 2. That it shall be the duty of the register and the receiver of any local land-office in whose district any mineral land may be situated to ascertain from time to time whether any timber is being cut or used upon any such lands, except for the purposes authorized by this act, within their respective land districts; and, if so, they shall immediately notify the commissioner of the general hand-office of that fact; and all necessary expenses theured in making such proper examinations shall be paid and allowed in the proper statement of the proper continuous proper in the prop

such register and receiver in masing of the accounts.

SEC. 3. Any person or persons who shall violate the provisions of this act, or any rules and regulations in pursuance thereof made by the secretary of the interior, shall be deemed guilty of misdementor, and, upon conviction, shall be fined in any sum or exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and to which may be added imprisonment for any term not exceeding \$500, and the provision of the provision of

AN ACT to amend Sections 2324 and 2325 of the revised statutes of

ax Acr to amond sections 2824 and 2825 of the revised statutes of the United States onerening mineral lands.

Be it emacted by the Senate and House of Representatives of the United States of America in Congress assembled. That Section 2825 of the revised statutes of the United States be amended by adding thereto the following words: "Provided, that where the claimant for a patent is not a resident of or within the land strict wherein the seni, hole, ledge or deposit sought to be required to be made in this section by the claimant for such patent may be made by his, her or its authorized agent, where said agent is conversant with the facts sought to be established by said afficiavitis: And provided, that this section shall apply to all applications now pending for patents to mineral lands.

Sec. 2. That Section 2824 of the revised statutes of the United States of the United State

Approved January 22, 1880 (21 Stat., 61).

AN ACT to amend Section 223 of the revised statutes relating to suits at law affecting the tiftle to mining claims.

Be it enacted by the Seinate and House of Representatives of the United States of America in Congress assembled. That if, it tiftle to the ground in controversy shall not be established by either party, the jury shall so find, and judgment shall be entered according to the verifiet. In such case costs shall not be allowed to either party, and the claimant shall not proceed in the kind-office or be entitled to a patent for the ground in controversy until he shall have perfected his tible.

Approved March 3, 1884 (24 Stat., 545).

AN ACT to amend Section 2326 of the revised statutes, in regard to the mineral lands, and for other purposes. Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled. That the adverse claim required by Section 2326 of the revised statutes may be verified by the oath of any duly authorized agent or altorney—fact of the adverse claimant, if residing or at the time being beyond the limits of the district wherein the claim is sinared, may make oath to the adverse claim before the clerk of any court of record of the United States or the state or territory where the adverse claimant may then be, or before any notary public of such state or territory.

claimant may then be, or becore any bondy points of territory.

See, 2. That applicants for mineral patents, if residing beyond the limits of the district wherein the claim is situated, may make any outh or affidiavit required for proof of clizenship before the state of territory.

Approved April 26, 1882 (22 Stat., 49).

Approved April 26, 1882 (22 84al., 49).

AN ACT to exclude the public lands, in Alabama from the operation of the laws relating to mineral lands.

Bell constead by the Senate and House of Representatives of the United States of America in Congress assembled. That within the state of Alabama all public lands, whether unneral or otherwise, shall be subject to disposal only as agricultural lands. Provided, however, that all lands which have heretoforce beare-ported to the general land-office as containing coal and from shall first be offered at public safe. And provided further. That any bona fide entry under the provisions of the homestead law of lands within sand state heretofore made may be patented with to promote the development of the mining resources of the United States, in cases where the persons making application for such patents have in all other respects compiled with the homestead law relating thereto.

Approved March 3, 1883(22 8tat., 487).

AN ACT providing a civil government for Alaska.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, \* \* \* \*
SEC, 8. That the said district of Alaska is hereby created a land district, and a United States land-offlice for said district is hereby located at Sifka. The commissioner provided for by this act to reside at Sifka, all be ex officio register of said land-offlice, and the clerk provided for by this act shall be ex officio receiver of public moneys, and the narshal provided for by this act shall be ex officio surveyor-general of said district, and the laws of

the United States relating to mining claims, and the rights incident thereto, shall, from and after the passage of this act, be in full force and effect in said district, under the administration thereof herein provided for, subject to such regulations as may be made by the secretary of the interior, approved by the president: Trovided, That the Indians or other persons in said disciplination of the property of the interior, approved by the president: Trovided, That the Indians or other persons in said disciplination of the property of the interior in their use or occupation or more claimed by them, but the terms under which such persons may acquire title to such lands is reserved for future legislation by congress: And provided further, That parties who have located mines or mineral privileges therein under the laws of the United States applicable to the public domain, or who have occupied and improved or exercised acts of ownership over such claims, shall not be disturbed therein, but shall be allowed to perfect their title to such claims by payment shall be allowed to perfect their title to such claims by payment shall be allowed to perfect their title to such claims by payment shall be allowed to perfect their title to such claims by payment shall be allowed to perfect their title to such claims by payment when the proposed continued and forty acres, at any station respectively belong, with the continued in the occupancy of the several religions societies, shall be continued in the occupancy of the several religions societies which said unisionary stations respectively belong, until action by congress. But nothing contained in this act shall be continued by this force is additionally and the proposed states. Approved May 17, 1884 (23 Stat., 24). the United States relating to mining claims, and the rights in-

Approved May 17, 1884 (23 Stat., 24).

AN ACT making appropriations for sundry civil expenses of the government for the fiscal year ending June 13, 1891, and for other purposes

United State

Approved August 30, 1890 (26 Stat., 371).

United States.

Approved August 30, 1800 (26 Stat., 371).

Avart repeal timber-enlare laws, and for other purposes.

Be it enacted by the Senate and House of Representatives of
the it enacted by the Senate and House of Representatives of
Sec. 16. That towns-site entries may be made by incorporated
towns and cities on the mineral lands of the United States, but
no fille shall be acquired by such towns or cities to any vein of
gold, silver, cinnabar, copper or lead, or to any valid mining
claim or possession held under existing law. When mineral
veins are possessed within the limits of an incorporated town or
city, and such possessions is recognized by local authority or by
the laws of the United States, the title to town lots shall be subject to such recognized possession and the necessary use the reof
sites to such incorporated lown or city, the possessor of such
mineral vein may enter and receive patent for such mineral vein,
and the surface ground appertaining thereto: Provided, That
no entry shall be made by such university endimental vein,
and the surface ground appertaining thereto: Provided, That
no entry shall be made by such university endimental vein,
and the surface and receive patent for such mineral vein
shall have had possession of the same before the inception of the
title of the mineral-vein applicant.

Sec. 17. That reservoir sites located or selected, and to be
special year ending June 13, 1889, and for other purposes," and
amendments thereto, shall be restricted to and shall contain only
so much land as is actually necessary for the construction and
maintenance of reservoirs, excluding so far as practicable lands
occupied by actual settlers at the date of the location of said reservoirs, and that the provisions of "An act making appropria
tons for sundry evid expenses of the government for the
iscal year ending June 18, 1891, and for other purposes," who are
act enter upon any of the public lands with a view to occupation,
entry or settlement under any of the land laws shall be permitted
t

Approved March 3, 1891 (26 Stat., 1095).

#### MINERAL LANDS OPEN TO EXPLORATION, OCCUPATION AND PURCHASE.

It will be perceived that by the foregoing provisions of law the mineral lands in the public domain, surveyed or unsurveyed, are open to exploration, occupation and purchase by all clizens of the United States and all those who have declared their inten-tions to become such.

## TATUS OF LODE CLAIMS LOCATED PRIOR TO MAY 10, 1872.

2. By an examination of the several sections of the revised statutes it will be seen that the status of lode claims located pre-vious to the buth of May 1872, is not changed with regard to their extent along the lode or width of surface.

## THE MINING DIRECTORY—LAWS.

· U. S. Codel

a. Mining rights acquired under such previous locations are, however, enlarged by such revised statutes in the following respect, via. The locators of all such previously taken veins or looks, their helis and assigns, so long as they comply with the mass of congress and with state, territorial or local regulations and trendled the previously taken veins or looks, their helis and assigns, so long as they comply with the mass of conflict the previously right of all the surface included within the lines of their locations and of all veins, lodes or ledges throughout their entire depth, the top or apex of which lies inside of such surface lines extended oldownward vertically, although such veins, lodes or ledges may so far depart from a perpendiental in their course downward as to extend outside the vertical said of such surface lines extended outside the vertical said of such veins, lodes or ledges may so far depart from a perpendient of said veins or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward, as aforesaid, through the end-lines of their locations so continued in their own direction that such planes will intersect such exterior parts of said veins roles or ledges; no right being granted, however, to make the surface location of another chainsant.

4. It is to be distinctly understood, however, that the law limits the possessory right to veins, lodes or ledges, other than the one named in the original location, to such as were not adversely claimed on May 10, 1872, and that where such other vein or ledges was so adversely chained at that date, the right of the party so gaves of the protection of the possessory tile to a mining claim located prior to May 10, 1872, and for which a patent has not been revised statutes.

5. In order to hold the possessory tile to a mining claim located prior to May 10, 1872, and for which a patent has not been minimally in the parties, the same as it in previously lead that the calms, at the rate of 80 per hundred feet, may be made

4, 1873, such annual expenditures are not required subsequent to entry, the date of issuing the patient certificate being the date contemplated by statute.

contemplated by statute, or the statute of the contemplated by statute in the contemplated by statute in the construction of the expenditures necessary to hold the claim or claims so held in ownership in common, the co-owners who have performed the labor or made the improvements as required by said revised statutes may, at the expiration of the year, give such delinquent co-owner personal notice in writing or notice by publication of the work of the properties of the published as holds of the properties of the prope

#### PATENTS FOR VEINS OR LODES HERETOFORE ISSUED

PATENTS FOR VEINS OR LODES BERETO-OBE ISSUED.

7. Rights under patents for veins or lodes beretofore granted under previous legislation of congress are enlarged by the revised statutes so as to invest the patentee, his heirs or assigns, with tifle to all veins, lodes or ledges throughout their entire depth, the top or payex of which lies within the end and side boundary lines of his claim on the surface, as patented, extended downward vertically, although such veins, lodes or ledges may so far extend muside the vertical side-lines of the claim at the surface. The right of possession to such outside parts of such veins or ledges to be confined to such portions thereof as lie between vertical planes drawn downward through the end-lines of the claims at the surface, so continued in their own direction that such living expressly provided, however, that all veins, lodes or ledges, the top or apex of which lies inside such surface locations, other han the one named in the patent, which were adversely claimed on the 10th of May, 1872, are eveluded from such conveyance by spatent. by patent

by patent.

8. Applications for patents for mining claims pending at the date of the act of May m, 1872, may be prosecuted to final decision in the general land-office, and where no adverse rights are affected thereby patents will be issued in pursuance of the provisions of the revised statutes.

#### MANNER OF LOCATING CLAIMS ON VEINS OR LODES AFTER MAY 10, 1872.

9. From and after the 10th of May, 1872, any person who is a citizen of the United States, or who has declared his intention to become a citizen, may locate, record and hold a mining claim of aftern hundred linear feet along the course of any mineral vein

or lode subject to location; or an association of persons, severally qualified as above, may make joint location of such claim of fifteen hundred feet, but in no event can a location of a vein or fideen hundred feet, but in no event can a location of a vein or fideen hundred feet along the association (May 16, 1872, exceed fifteen hundred feet along the course thereof, whatever may be the number of persons composing the association vein to surface ground adjoining a vein or lode and claimed for the convenient working thereof, the revised statutes provide that the lateral extent of locations of veins or lodes made after May 10, 1872, shall in no case exceed three hundred feet on each side of the middle of the vein at the surface, and that no such surface rights shall be limited by any mining regulations to less than twenty-five feet on each side of mining regulations of such claims to be in all cases parallel to each other. Said lateral measurements cannot extend beyond three hundred feet on either side of the middle of the vein at the surface, or such distance as is allowed by local laws. For example: Four hundred first in cuber with the control of the contr

xisting on the 10th of May, 1872, render such lateral limitation

necessary.

existing on the 10th of May, 1872, render such lateral huntation necessary, oroxided by the revised statutes that the miners of each district may make rules and regulations not be conflict with the laws of the United States or of the state or territory in which such of states that the nine of the conflict with the laws of the United States or of the state or territory in which such of recording and amount of work necessary to hold possession of a claim. They likewase require that the location shall be so distinctly marked on the ground that its boundaries may be readily traced. This is a very important matter, and locators outset, insamely as the law requires that all records of mining locations made subsequent to May 16, 1872, shall contain the name or names of the locations, the date of the location and such a description of the claim or claims located, by reference to some natural object or permanent monument, as will identify the claim. In. The statutes provide that no lode staim shall be recorded the lamb located, the object of which provision is evidently to prevent the appropriation of presumed mineral ground for specularity properties. It is a substantial properties, before sufficient work has been done to determine whether a velocities of other pedity exists.

went the appropriation of pressumed mineral ground for specifiative purposes to the exclusion of bona file prospectors, before sufficient work has been done to determine whether a velo olde really-vists.

14. The chimant should, therefore, prior to locating his claim, miness the vein can be traced upon the surface, sink a shaft or run diescipe a mineral-bearing vein, hole or crevice; should dietermine, if possible, the general course of such vein in either direction from the point of discovery, by which direction he will be governed in marking the boundaries of his claim on the surface. His location notice should give the ourse and distance as marky as practicable from the discovery-shaft on the claim, to instance, as stone monuments, blazed trees, the confluence of streams, point of intersection of well-known galends, running at vicinity and which will serve to perpetuate and fix the locus of the claim and reader if susceptible of identification from the description thereof given in the record of locations in the district.

15. In addition to the foregoing data, the chaimant should state he names of adjoining claims or, if none adjoin, the relative positions of the marest claims; should drive a post or creat a monument of stones at each corner of his surface ground, and at the point of discovery or discovery-shaft should fix a post, sake or board, upon which should be designated the name of claimed, and in which direction from the point of discovery; if being essential that the location notice field for record, in addition to the foregoing description, should state whether the entire claims of addition to the foregoing description, should state whether the entire claims of manner adoresing the state of the point of discovery or whether it is partly upon one and partly upon the interest and in which direction from the point of discovery in the record of the continuous of the case of the point of discovery or whether it is partly upon one and partly upon the long search and all have been marked on the ground or

performed prior to the 1st day of January succeeding the date of location will not be considered as a part of or applied upon the first annual expenditure required by law. Failure to make the expenditure or perform the labor required will subject the claim to re-location by any other party having the necessary qualifications, unless the original locator, his heirs, assigns or legal representatives, have resumed work thereon after such failure and be-

fore such re-location.

18. The expenditures required upon mining claims may be made from the surface or in running a tunnel for the development of such claims, the act of February 11, 1875, providing that where a person or company has or may run a tunnel for the purpose of developing a lode or lodes owned by said person or company, the money so expended in said tunnel shall be taken and considered as expended on said folder to lodes, and such person or company shall not be required to perform work on the surface of said outer or lodes in order to hold the same these details in the matter of location, labor and expenditure will be the more readily necessived when it is understood that a failure to give the subject proper attention may invalidate the claim.

#### TUNNEL-RIGHTS.

20. Section 2823 provides that where a tunnel is run for the development of a velo or bule, or for the discovery of mines, the owners of such tunnel shall have the right of possession of all veins or bodes within three thousand feet from the face of such tunnel, on the line thereof, not previously known to exist, discovered in such tunnel, to the same extent as if discovered from the surface; and locations on the line of such tunnel or veins or lodes not appearing on the surface, made by other parties after the commencement of the tunnel, and while the same is being to proscente the work on the tunnel for six months shall be considered as an abandonment of the right to all undiscovered veins or lodes on the line of said tunnel.

2.1. The effect of this is simply to give the proprietors of a mining tunnel run in good faith the possessory right to lifteen hundred teel of any blind lodes cut, discovered or intersected by the considered and the problem of the parties, after the commencement of such tunnel, and to problem of the parties, after the commencement of such tunnel, and to problem of the parties, after the commencement of the tunnel, from prospecting for and making locations of lodes on the line thereof and within said distance of three thousand feet, unless such lodes appear upon the surface or were previously shown to exist.

botes on the line thereof and within said distance of three thousand foet, unless such lodes appear upon the surface or were previously known to exist.

22. The term "taee," as used in said section, is construed and held to mean the first working-face formed in the tunnel, and to signify the point at which the tunnel actually enters cover; it being front his point that the three thousand feet are to be counted, 23. To avoid themselves of the benefits of this provision of law, the proprietors of a mining tunnel will be required, at the time they enter cover as aforesaid, to give proper notice of their tunnel location by creeting a substantial post, board or monument at the face or point of commencement thereof, upon which should be posted a good and sufficient notice, giving the names of the parties or company chaining the tunnel-right, the return of which thereof, and the course and distance from such face or point of commencement to some permanent, well-known objects in the vicinity by which to fix and determine the locus in manner here to the some posting such notice they shall, in order that miners or prospectors may be enabled to determine whether or host the prospections may be enabled to the returning or the properties of the pr

reasonable difficure.

24. At the time of posting notice and marking out the lines of the tunnel as aforesaid, a full and correct copy of such notice of location defining the tunnel claim must be lifed for record with the mining recorder of the district, to which notice must be attached tion defining the tunnel claim must be filed for record with the mining recorder of the district, to which notice must be attached the sworn statement or declaration of the owners, claimants or projectors of such tunnel, setting forth the facts in the case; stating the amount expended by themselves and their predecession in interest in prosecuting work thereon; the extent of the cute the work on the tunnel so located and described with recorded the control of the control of the cute the work on the tunnel so located and described with reconcile discovery of mines or both, as the case may be. This notice of location must be duly recorded, and, with the said sworn statement attached, kept on the recorder's files for future reference. 25. By a compliance with the foregoing much needless difficulty acquired in virtue of said Section 222 will be made under more casy and certain.

26. This office will take particular care that no improper advantage is taken of this provision of law by parties making on professing to make tunnel locations, ostensibly for the purposes manned in the statute, but really for the purpose of monopolizing in the statute, but really for the purpose of monopolizing on mines, but will hold such tunnel claimants to a strict compliance with the terms of the statute, set names to a strict compliance with the terms of the statute, six one of the essential conditions of their implied contract. Negligence or want of dirediligence with the construct as working a forteiture of their right to all undiscovered veins on the line of such tunnel.

MANNER OF PROCEEDING TO OBTAIN GOVERNMENT TITLE TO VEIN OR LODE CLAIMS.

27. By Section 2325 authority is given for granting titles for mines by patent from the government to any person, association or corporation having the necessary qualifications as to citizenship and holding the right of possession to a claim in compliance

27. By Section 225 authority is given for granting titles for mines by patent from the government to any person, association or corporation having the necessary qualifications as to elitizenship and holding the right of possession to a claim in compliance 28. The claimant is required in the first place to have a correct survey of his claim made under anthority of the surveyor-general of the state or territory in which the claim lies; such survey to show with accuracy the exterior surface boundaries of the claim, which homodaries are required to be distinctly marked by unmarked hy unmarked the compliance of the surveyor-general, one polar and the original field-notes to be retained in the office of the surveyor-general, one copy of the plat to be given the claim nut or posting upon the claim, one plat and a cupy of the field-notes to be given to the claimant for filing with the proper register to the proper land district to be retained on his files for future reference. As there is no resident surveyor-general to the register of the proper land district to be retained on his files for future reference. As there is no resident survey of unineral claims in said state should be made to the contract claims in said state should be made to the contract claims in said state should be made to the contract claims in said state should be made to the contract of the state of the state of Arkanesa, applications for the survey of unineral claims in said state should be made to the contract of the state of the survey of the claim to the survey in a conspicence should be made to the contract of the state o

designate the newspaper of general circulation that is published nearest the land, geographically measured. When two or more such newspapers are published in the same town, nearest the land, he may select the one which, in his honest and impartial highgment as a public officer, will best subserve the purpose of the law and the general interests of the public, are seasonable to the law and the general interests of the public, are established by this office for the publication of legal notices.

30. The claimant, either at the time of filing these papers with register or at any time during the sixty day, publication, is required to tile a certificate of the surveyor-seneral that not less than \$500 worth of labor has been expended or improvements made monor the claim by the applicant or his grantors; that the plat filed by the calmant is correct experiptions; that the plat filed by the calmant is correct expeription of the claim as will, if incorporated into a patient, serve to fully identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and by the least blergel.

premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and by the toers thereof.

The properties of the tentre of the properties of the properties of the properties of the properties of survey field by the claimant as aforesaid.

After the sixty days' period of newspaper publication has expired the claimant will formish from the office of publication as swarn statement that the notice was published for the statutory period, giving the first and last day of such publication, and its own authority showing that the pint and notice aforesaid renadined said sixty days' publication, giving the dates.

2. Upon the filling of this audical the register will, if no adverse claim was filed in his office during the period of publication, permit the claimant to pay for the hand according to the area given in the plat and field-notes of survey aforesaid, at the rate of Scior calci acre and Scior cander fractional part of an acre, the properties of the properties o

tound regular.

3. In sending up the papers in the case the register must not omit certifying to the fact that the notice was posted in his office for the full period of styly days, such certificate to state distinctly when such posting was done and how long centimed.

4. The consecutive series of numbers of mineral entries must be continued, whether the same are of lode or placer claims or publishes.

44. The consecutive series of numbers of mineral entries must be continued, whether the same are of lode or placer claims or millisites.

45. The surveyors-general should designate all surveyed mineral claims by a progressive series of numbers, beginning with survey No. 37, irrespective as on whethin to be so designation survey. No. 37, irrespective as on whethin to be so designated at date of issuing the order therefor, in addition to the local designation of the claim. It being required in all cases that the plat and field notes of the survey of a claim must, in addition to the reference to permanent objects in the neighborhood, describe the locals of the claim, with reference to the lines of public surveys, by a line connecting a corner of the claim with the nearest public corner of the United States survey, unless such claim be on unsurveyed lands at a distance of more than two miles from such particle states morent mountment. Such connecting line must not be more than two miles from such particles mineral mountment. Such connecting line must not be more than two miles in length and should be measured on the ground direct measurement. If a regularly established survey corner is within two miles of a claim situated on unsurveyed mads, the connection should be made with such corner in preference to a connection with a United states mineral mountment. The connecting line must be surveyed by the deputy mineral survey and the corner of the connection with a United states mineral mountment.

46. Upon the autoroad of the survey of a mining claim made of the connection state.

The connecting line must be surveyed by the deputy moneral surveyer at the time of his making the particular survey, and he made a part therefore and of the survey of a mining claim made man surveyed lands, the surveyer general will prepare and transmit to the local knd-ordice and to this office a diagram tracing showing the portions of legal forty-acre subdivisions made fractional by reason of the mineral survey, designating cach of such portions by the proper lat number, beginning will No. 1 in each set the survey of the proper lating the area of more at the survey of the proper lating of the proper lating the area of the mineral claims, required by Section 3.5, revised statutes of the United States, to be fluch in the proper lating office, with application for patent, must be made subsequent to the recording of the location of the mine; and when the original location is made by survey of a United States deputy surveyor such location survey cannot be substituted for that required by the first proper lating the survey of a United States deputy surveyor which to base his certificate as to the value of labor expended or improvements made from his deputy who makes the actual survey and examination upon the premises, and such deputy should specify with particularity and full detail the character and extent of such improvements in the survey of the survey.

of such improvements.

49. The following particulars should be observed in the survey

49. The following particulars should be observed in the survey of every mining claim;

(1) The exterior boundaries of the claim should be represented in the plat of survey and in the fleid-inites, and the plat of survey with the lines of the survey with the lines of conflicting prior surveys should be noted in the field-notes and represented upon the plat.

(3) Conflicts with unsurveyed claims, where the applicant for survey does not claim the area in conflict, should be shown by actual survey.

(4) The total area of the claim embraced by the exterior

boundaries should be stated, and also the area in conflict with each intersecting survey, substantially as follows:

total area of cauli Area in conflict with Survey No. 302. . . Area in conflict with Survey No. 948 . . Area in conflict with Mountain Maid-lode tunning claim, un-

within it.

5.1 The end line of his survey should not, therefore, he established beyond such intersection, unless it should be necessary so to do for the purpose of including ground held and claimed under a location which was made upon public hand and valid at the time it was made. To include the first hand and valid at the first considerable of the survey may be established within the conflicting survey, but the line must be so run as not to extend any farther into the conflicting survey than may be necessary to make such end-line parallel to the other end line and at the same time embrace the ground so held and claimed. The useless practice in such cases of extending both the adstruction of the survey of the conflicting survey than in the production of the survey of the survey of the survey of the survey of the production of the survey of the s

#### PLACER CLAIMS.

rule just stated, will be discontinued.

PLANER CLAIMS.

72. The proceedings to obtain nations for claims usually called placers, including all forms of deposit, excepting veius of quarter claim shall be upon surveyed lands, and conform to legal subdivisions, no further survey or plat will be required, and all placer claim shall be upon surveyed lands, and conform to legal subdivisions, no further survey or plat will be required, and all placer claims for the surveyed lands, and conform to legal subdivisions, no further survey or plat will be required, and all placer laming claims located after May 16, 1872, shall conform as nearly as practicable with the United States system of public land surveys, and the rectangular subdivi ions of such surveys, and no such location shall undale more than twenty acres for each individual subdivisions, survey and plat shall be made as on unsurveyed lands. But where such claims are located previous to the public surveys, and do not conform to legal subdivisions, survey, plat and entry thereof may be made according to the boundaries surveys, and do not conform to legal subdivisions, survey, plat and entry thereof may be made according to the boundaries having afready been fully graven, it will not be necessary for post provided the location is in all respects legal.

33. The proceedings for obtaining patients for veius or located having afready been fully graven, it will not be necessary to riport standingly in the matter and make such slight modifications in the notice, or otherwise, as may be necessary in view of the different nature of the two classes of claims, placer claims being fixed, however, at \$2.50 per acre or fractional part of an according to the subdivisions into tencare lofs, which is hir sould fixed in the form of a sundarion and according to the subdivisions and the intervening agricultural lands.

34. By section 223a, anthority is given for the subdivis on of orty-acre legal subdivisions into tencare lofs, which is not subdivision of the necessary to make the

Inasimich as the surveyor-general has no duty to perform in connection with the cutry of a placer claim of legal subdivisions, the proof of improvements must show their value to be not been as the proof of improvements must show their value to be not been as the proof of improvements must show their value to be not lever in the grantors. The ainmal expenditure to the amount of \$100, required by Section 2321, revised statutes, must be made upon placer claims as well as lode claims.

S. Applicants for patent to a placer claim, who are also in possession of a known vein or lode included therein, must state in their application that the placer includes such view or lode. The properties the fact should be distinctly stated in the application for patent, and in all the notices. But in all cases whether the lode is claimed or excluded, it must be surveyed and marked upon the plat; the field-notes and plat giving the area of the lode claim or claims and the area of the placer separately. It should be remorable that the applicant which must be surveyed and marked upon the plat; the field-notes and plat giving the area of the lode claim or claims and the area of the placer separately. It should be remorable to the plate of the placer separately. It should be remorable to the plate of the placer separately. It should be remorable to the plate of the placer separately. It should be remorable to the plate of the placer separately and the plate of the placer separately. It should be remorable to the plate of the placer separately and the plate of the placer plate of the placer claim, and after July 3, 1570, shall exceed one hundred and sixty acres for acid into a placer plate of the plate of t

tace and underground workings, whether placer or lode, for mining purposes.

(4) In addition to these data, which the law requires to be shown in all cases, the deputy should report with reference to the proximity of centers of trade or residence; also of well-known sy dense of lode deposit or of individual lodes. He should also report as to the use or adaptability of the claim for placer min-ing; whether water has been brought upon it in sufficient quan-tity to mine the same, or whether it can be procured for that purpose; and, finally, what works or expenditures have been make by the chainant or his grantors for the development of the supplied for.

(5) This examination should be reported by the deputy under eath to the surveyor-general, and duly corroborated; and a copy

as applied for.

(5) This examination should be reported by the deputy under oath to the surveyor-general, and duly corroborated; and a copy of the same should be furnished with the application for patent to the claim, constituting a part thereof, and included in the eath of the applicant.

(6) Applications awaiting entry, whether published or not, must be made to conform to these regulations, with respect to examination as to the character of the land. Entries already

made will be suspended for such additional proofs as may be deemed necessary in each case,

made will be suspended for such additional proofs as may be deemed necessary in each case.

MILLESTIES.

64. Section 2377 provides that "where non-mineral land not contiguous to the vein or lode is used or occupied by the proprietor of such vein or lode for mining or milling purposes, such non-adjacent surface ground may be embraced and included in application for a patent for such vein or lode, and the same may be patented therewith, subject to the same preliminary requirements as to survey and notice as are applicable to veins or lodes; but no location hereafter made of such non-adjacent land shall exceed five acres, and payment for the same must be made shall exceed five acres, and payment for the some must be made the lode. The owner of a quartz-mill or reduction-works, not owning a mine in connection therewith, may also receive a patent for his mill-site, as provided in this section.

65. To avait themselves of this provision of law, parties holding the possessory right to a vein or lode, and to a piece of non-interal land not contiguous thereto, for mining or milling purposes, not exceeding the quantity allowed for such purpose by section 25x United State revised pures for prior axys, by section 25x United State revised pures for prior axys, by a patent, inder oath, in manner already set forth herein, which application, together with the plat and fietd-notes, may include embrace and describe, in addition to the vein or lode, such non-contiguous mill-site, and after due proceedings as to notice, etc. a patent will be issued conveying the same as one claim.

65. In making the survey in a case of this kind, the lode chain a patent, under oath, in manner already set forth herein, which application to gether with the plat and fietd-notes, may include embrace and describe, in addition to the vein or lode, such non-contiguous mill-site, and after due proceedings as to notice, etc. a patent will be issued conveying the same as one claim.

65. To acknowledge to the plat and after due proceedings as to notice, etc.

#### POSSESSORY RIGHT.

80. With regard to the proofs necessary to establish the possessory right to a mining claim, Section 232 provides that where such person or association, they and their grautors, have held and worked their claims for a period equal to the time prescribed by the statute of limitations for mining claims of the state or territory where the same may be situated, evidence of such possession and working of the claims for such period shall be sufficient to establish a right to a patient thereto under this chapter, in the besence of may decrease the theorem of the proof, more especially in the case of old claims located many verry since, the records of which, in many cases, have been but concerning the possessory right to which all controversy or litigation has long been settled.

71. When an applicant desires to make his proof of possessory right in accordance with this provision of law, he will not be required to be of the control of the contro

sion and hona fides which he may desure to submit in support of its claim.

Its claim, who will be supported a certificate, under seal of the court having purisdiction of mining cases within the judicial district embracing the claim, that no suit or action of any char-acter whatever involving the right of possession to any portion of the claim applied for is pending, and that there has, been no litigation before said court affecting the title to said claim or any part thereof to a period equal to the time fixed by the statute of innitiations for mining claims in the state or erritory as aforesed; claimant, that which has been mailly decided a more or the

claimant.

claimant.

73. The claimant should support his narrative of facts relative to his possession, occupancy and improvements by corroborative testimony of any disinterested person or persons of credibility who may be cognizant of the facts in the case and are capable of testifying understandingly in the premises.

74. As a condition for the making of application for patent according to Section 235, there must be a preliminary showing of

work or expenditure upon each location, either by showing the full amount sufficient to the maintenance of possession under Section 2324 for the pending year; or, if there has been faintenit it should be shown that work has been resumed so as to prevent re-location by adverse parties after abandonment. The "pending year" means the calendar year in which application is made and has no reference to a showing of work at date of the final entry.

75. This preliminary showing may, where the matter is un-questioned, consist of the affidavit of two or more witnesses familiar with the facts.

## PROOF OF CITIZENSHIP OF MINING CLAIMANTS

PROOF OF CITIZENSHIP OF MINING CLAIMANTS.
76. The proof necessary to establish the citizenship of applicants for mining patents must be made in the following manner: In case of an incorporated company, a certified copy of their of their distribution of persons unincorporated, the affidary of their duly authorized agent, made upon his own knowledge or upon information and belief, setting forth the resilience of each person forming such association, must be submitted. This affidiation of the companied by a power of attorney from the parties forming such association, authorizing the person who makes the affidavit of eithernship to not for them in the matter of their application for patent.
77. In case of an individual or an association of individuals who do not appear by their duly authorized agent, you will require the affidavit of each applicant, showing whether he is a native or a naturalized citizen, when and where born and his residence.

In case an applicant has declared his intention to become a citizen or has been maturalized, his adidavit must show the date, place and the court before which he declared his intention, or from which his certificate of citizenship issued, and present

residence, 79, The affidavit of the claimant as to his eltizenship may be 73. The allidavit of the claimant as to his effizenship may be taken before the register or receiver, or any other officer authorized to administer oaths within the land district; or, if the claimant is residing beyond the limits of the district, the allidavit may be taken before the clerk of any court or record or before any beta the contemporary public of any state or territory.
so. If efficienship is established by the testimony of distrinous may be taken at any place before any person authorized to administer oaths, and whose official character is duly verticed.

#### ADVERSE CLAIMS.

st, Section 2236, and the act of April 26, 1882, provide for adverse claims, its the time within which they shall be filled to have begal effect, and prescribe the manner of their adjustment, etc. 82. An adverse mining claim must be filled with the register and receiver of the land office where the application for patent was filed, or with the register and receiver of the district in which the hand is situated at the time of filling the adverse claim, It must be on the oath of the adverse claimant, or it may be verified by the oath of any duly authorized agent or attorney-infact of the adverse claimant, cognizant of the facts stated, fact of the adverse claimant, cognizant of the facts stated, example and accompany his affidavit by proof thereof.

81. The agent or attorney-in-fact must make the affidavit in verification of the adverse claim within the land district where the claim is situated.

and accompany his allidavit by proof thereof.

84. The agent or attorney-in-fact must make the aflidavit in verification of the adverse claim within the land district where the claim is stinated. The claim is stinated the adverse claim within the land district where the claim is stinated to the claim is an apprehase for valuable consideration or as in locator; it the former, a certified copy of the original location, the original conveyance, a duly certified copy thereof, or an abstract of title from the office of the proper recorder should be furnished; or little transaction was a merely verbal one he will marrach the amount paid, which facts should be supported by the aflicavit one or more vitnesses, if any were present at the time, and it he claims as a locator he must file a duly certified copy of the location from the office of the proper recorder.

85. In order that the "boundaries" and "extent" of the claim any be shown, it will be incumbent, and the extent of the claims are the state of the proper recorder. This plat must be made from an actual survey by a United States deputy surveyor, who will officially certify thereon to its correctness; and in addition there must be attached to such plat of survey a certificate or sworn statement by the surveyor as to the approximate value by the plat of survey a certificate or sworn statement by the surveyor safety of the party opposing the apphendion and by which party said improximents were made: Provided, however, That if the application for patent describes the claim she lexist, upon the survey or plat.

87. Upon the foregoing being filed within the sixty days as aforesaid, the register, or in his absence the receiver, will give survey or plat.

88. The provided however that if the application to determine the question of right of possession and to prosecute the same with reasonable diligence to final judgment and that, should such adverse claim at fail to do so, his adverse claim will be considered washed and the application for patent describes the canner wi

88. When an adverse claim is filed as aforesaid, the register or receiver will indorse upon the same the precise date of filing and preserve a record of the date of notifications issued thereon, and thereafter all proceedings on the application of the publication and posting of notices and plat and the filing of the necessary proof thereof, until the controversy shall have been adjudicated in court or the adverse claim has been filed and suit thereon commenced within the statutory period and final judgment deterning the right of possession rendered in favor of the applicant is will not be sufficient for him to first of the publication of the control of the proposition of the proposition of the applicant is will not be sufficient for him to first of the proposition of the applicant is will not be sufficient for him to first of the publicant is described by the publicant of the applicant is allowed to make entry, file a certified copy of the judgment, together with the other evidence required by Section 2282, revised statutes.

90. Where such suit bas been dismissed, a certificate of the clerk of the court to that effect or a certified copy of the order of dismissal will be sufficient for the pround in control.

dismissal will be sufficient.

91, In no case will a relinquishment of the ground in controversy or other proof, filed with the register or receiver, be accepted in lien of the evidence required.

22. Where an adverse claim has been filed, but no suit commenced against the applicant for patient within the statutory period, a certificate to that effect by the clerk of the state court naving jurisdiction in the case, and also by the elerk of the circuit court of the United States for the district in which the claim is

having jurisdiction in the case, and also by the elerk of the circuit court of the United States for the district in which the claim is situated, will be required.

33. A party who is not an applicant for patent under Section 235, revised statutes, or the assignee of such applicant, is not cutfilled to make entry under said section and in to case with a contribution has no reference to proceedings under Section 235.

34. Any party applying to make entry as trustee must discussed fully the nature of the trust and the name of the cestri queriest; and such trustee, as well as the beneficiaries, must furnish satisfactory proof of citizenship; and the names of beneficiaries, as well as that of the trustee, must be inserted in the flust certificate of cutry.

35. The available of the trust and the names of beneficiaries, as well as that of the trustee, must be inserted in the flust certificate of cutry.

36. The administration of the trust proper proofs have been flied upon all the points indicated in official regulations in force and that they show a sufficient bona fide compliance with the laws and such regulations.

36. The administration of the mining laws as prescribed by these regulations will be, so far as applicable, adopted for and extending a such, and their clerks and deputy surveyors will be deemed subject to the laws and responsibilities of similar officers and persons under contract and responsibilities of similar officers and persons under context and the commissioner of the general and office will exercise the same general supervision over the excention of the laws as les or may be exercised by him in other mineral districts.

APPOINTMENT OF DEPUTY SURVEYORS OF MINING CLAIMS CHARGES FOR SURVEYS AND PUBLICATIONS—FEES OF REG-ISTERS AND RECEIVERS, ETC.

97. Section 2334 provides for the appointment of surveyors of mineral claims, authorizes the commissioner of the general land-office to establish the rates to be charged for surveys and for newspaper publications.

Under this authority of law the following rates have been established as the maximum charges for newspaper publications in mining cases:

for newspaper publications.
Under this authority of law the following rates have been established as the maximum charges for newspaper publications in milling capacity of the hearing shall not exceed \$7 for each ten lines of space occupied; and where a weekly newspaper is designated as the medium of publication \$5 for the same space will be allowed. Such charges shall be accepted as full payment for publication in each issue of the newspaper is designated as the medium of publication \$7 for the same space will be allowed. Such charges shall be accepted as full payment for publication in each issue of the newspaper for the entire period required by law.
It is expected that these notices shall not exceed as \$1 for period the entire period required by law.
It is expected that these notices shall not exceed as in the oscillation lody-type used for advertisements.

(2) For the publication of citations in contests or hearings involving the character of lands, the charges shall not exceed \$8 for five publications in weekly newspapers of \$10 for publication in daily newspapers for thirty days.

(3) The surveyor-geometral of the waveral districts will, in purent deputies for the survey of mining claims as may seek such appointment; it being distinctly understood that all expenses of these notices and surveys are to be borde by the mining claims and not by the United States; the system of making deposition of employing any deputy surveyor within such district to 90. With regard to the platting of the claim and other officency in favor of the United States treasurer, to be passed understood the surveyor general's office, that officer will make an estimate of the cost thereof, which amount the claimant halving the posit with any assistant United States treasurer, to be passed to the credit of the fund created by "individual depositors for surveyors are proposed to the credit of the fund created by "individual depositors for a fundament of the cost thereof, which amount the claimant hall depositors for surveyors general wil

The duty of the deputy mineral surveyor ceases when he has evented the survey and returned the field-notes and preliminary plat thereof with his report to the surveyor-general. He will not be allowed to prepare for the mining claimant the papers in sup-port of an application for patent or otherwise perform the duties of an attorney before the land-office in connection with a mining

claim.

The surveyors-general and local land-officers are expected to report any intringement of this regulation to this office, 102. The law requires that each applicant shall file with the register and receiver a sworn statement of all charges and fees paid him for publication of notice and for survey, together with all fees and money paid the register and receiver, which sworn formation of the commissioner.

103. Should it appear that excessive or exorbitant charges have been made by any surveyor or any publisher, prompt action will be taken with the view of correcting the abuse.

104. The fees payable to the register and receiver to filing and acting upon applications for uniocal land patents are \$5 to cach and the like sum of \$8 is payable to each officer by an adverse claimant at the time of filing his adverse claim. (Section 228, revised statutes, paragraph 9.)

105. All fees or charges under this law may be pald in United States carriery.

105. All fees of charges under this law may be paid in United States currency.
106. The register and receiver will, at the close of each month, forward to this office an abstract of mining applications thed and a register of receipts, accompanied with an abstract of mineral lands soid and an abstract of adverse claims field.
107. The fees and purchase money received by registers and receivers monthly and quarterly account, charging up in the receiver's monthly and quarterly account, charging up in the pay to be provided by the property of the proper

PROCEEDINGS BEFORE THE REGISTER AND RECEIVER AND SURVEYORS-GENERAL IN CONTESTS AND HEARINGS TO ESTABLISH THE CHARKCTER OF LANDS.

108. The "rules of practice in cases before the United States district land-offices, the general land-office, and the department of the interior," approved August 13, 1885, will, as far as applied-ble, govern in all cases and proceedings arising in contests, and hearings to determine the mineral or non-mineral character of

hearings to determine the mineral or non-nuneral enatactes or lands.

109. The only tracts of public lands that will be withheld from entry as agricultural land on account of its mineral character will be such as are returned by the surveyor-general as unineral; and even the presumption which is supported by such return may be overcome by testimony taken at a regular hearing.

110. Hearings to determine the character of land, as practically distinguished, are of two kinds:

(1) Where lands which are sought to be entered and patented as agricultural are alleged by affidavit to be mineral or when sought as mineral their non-unineral character is alleged.

The proceedings relative to this class are in the nature of a contest between two or more known parties.

(2) When lands are returned as mineral by the surveyor-general.

countest between two or more known parties.

(2) When lands are returned as mineral by the surveyorgeneral.

When such lands are sought to be entered as agricultural,
notice must be given by publication for thirty days, with posting
in the local office for the same period.

HI. At the hearings under either of the aforesaid classes, the
claimants and winnesses will be thoroughly examined with regamma and winnesses will be thoroughly examined with recomplete the same period.

In the local properties of the properties of the recomplete the properties of the properties of the repartition of the properties of the properties of the repartition of the properties of the properties of the repartition of the properties of the properties of the repartition of the properties of the properties of the properties of the
place, bearing gold, silver, climabar, lead, tin or copper, or other
properties of the positive of the properties o

as will conform to the requirements in Section 2320. United States revised statutes, as to length and width and parallel end-lines. II.5. Such survey when executed must be properly sworn to by the surveyor, either before a notary public, officer of a court of record or before the register or receiver, the deponent's characteristic property. ter and credibility to be properly certified to by the officer administering the oath.

record or before the register or receiver, the deponent's characteriant certallibility to be properly certified to by the officer administering the ordin, of the plat and field-notes of such survey, duly sworn to as aforesaid, you will transmit the same to make the work correctly performed, will properly mark out the same upon the original township plat and secreption both to the proper local land-office and to this office, to be affixed to the duplicate and trainidate township plats respectively. The same to the same as processed, so the same as provided in Paragraph 45, in the survey of mining claims with No. 1 in each section, and giving the area in each lot, the same as provided in Paragraph 45, in the survey of mining claims is the same as provided in Paragraph 45, in the survey of mining claims of the same as provided in Paragraph 45, in the survey of mining claims and notices, as a preliminary step; and then, before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then, before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then, before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then, before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then, before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then before he can cuter to give stry days' publication of notice, and posting of diagrams and notices, as a preliminary step; and then before he can cuter to give stry days' publication of notice, and posting

Approved December 10, 1891. JOHN W. NOBLE, Secretary,

## DECISIONS OF THE SECRETARY OF THE INTERIOR.

MINING CLAIM PUBLICATION OF NOTICE.

1. The notice of application for mineral patent must be published in the newspaper issued nearest to the claim.

2. A statute providing for the service of notice by publication should be strictly observed in order to give jurisdiction.

3. A case cannot properly be referred to the board of een given at the control of the publication for settlements, i. by such omission no opportunity has been given protestantst, as, by such omission no opportunity has been given protestantst to assert their rights, if they have any. [Rendered February 5, 1892.]

#### MINING CLAIMS-MILL-SITE IMPROVEMENTS

MINING CLAIMS—WILLSSTE IMPROVEMENTS.

1. The erection and maintenance in good faith of dwelling-houses for the occupancy of workmen employed for purposes in concetion with a mill for the reduction of ores is such a use and occupancy of the land as will justify the granting of a mill-site entry of the same.

2. The erection of such houses is clearly a substantial use and improvement of the land. They become a part of the realty and would pass by a conveyance of the land, and which are erected as a conveyance of the land, and when employed in ere erected with the condition of the land, and when employed in [Rendered February 11, 1892.]

#### ADVERSE PROCEEDINGS. REGULATIONS.

ADVERSE PROCEEDINGS.—REGULATIONS.

1. The department of the interior, in the exercise of its discretion, may suspend its regulations in order to avoid the perpeture of the process of the suspending of the perpeture of the perpe

## SURVEY. OFFICIAL CIRCULAR DEC. 4, 1884.

In the survey of a mining claim the end-line must terminate at the point where the mineral lode, in its onward course or strike, intersects an older or senior location, and the regulations of December 4, 1884, to this effect are not in conflict with statutory

provisions.

2. The right of location upon the mineral lands of the United States is a privilege granted by congress, but it can only be excretised within the limits prescribed by the grant. A location exact only be made where the law allows it to be done. Any attempt to go beyond that will avail nothing. Hence a re-location or lands actually covered at the time by another valid and subsisting location is void, and this not only a signifiest a prior beatton, but against all the world, because the law allows no such thing to be done. (Rendered July 18, 1892.)

# CORPORATION, LIEN AND MINING LAWS

OF THE

## STATES AND TERRITORIES OF THE UNITED STATES

1 = 0 ->

#### COMPILED EXPRESSLY FOR THE MINING DIRECTORY

## VLABAMA

Compiled by PILLANS, TORREY & HANAW, Attorneys at Law, 74 St. Francis st., Mobile, Ala.

CORPORATIONS.

(Code of Alabama, Sees, 1557 et seq.)

Corporations may be formed by two or more persons, who shall file in the office of the judge of probate of the county wherein said corporation shall have its place of business, a declaration should be greated of them, shalling.

2. Name and style of the proposed corporation.

3. The amount of capital stock and the number of shares in which it is divided.

- which it is trivited.

  The general purposes of the corporation and the nature of the business proposed, the business proposed. The principal place of business of the corporation.

  Such other matters as the incorporators may deem it desirable to state.

OMMASSIAN, COMMASSIAN, On the filing of the declaration above mentioned the judge of probate must issue a commission to two or more subscribers, who are then authorized to open books of subscription.

or more subscribers, who are then authorized to open books of subscription.

SUBS HIFTIONS TO STOCK, All subscriptions must be payable in money, but the commissioners may receive subscriptions payable in money, the subscriber reserving at the time the privilege of discharging the same in the readition of services or labor begoed the same in the readition of services or labor begoed the same in the readition of services or labor property as the corporation has the capacity to acquire and hold, at the reasonable value thereo, provided the nature and character of the property and when it is to be transferred or conveyed be stated in the subscription.

ORGANIZATION. When lifty per cent, of the capital stock has been subscribed in good faith by subscribers of whose solveney together at a time and place fixed by them for the election of directors and officers. The directors must consist of not less than three or more than nine stockholders, who hold office for welve months, at such organization meeting an officer must be designated to receive from the commissioners, the subscription for stock, and such officer shall thereupon require payment in orstock and such officer shall thereupon require payment in scriber who has not reserved the privilege of discharging such as the property of the property of the property, and from the subscriptions in scriptares or conveyance of property; and from the subscribt on the rendition of the services or to make transfer of the property at such times as the board of directors. The proceedings of the meetings must be reduced to writing, signed by the subscribers and delivered to the commissioners.

transfer of the property at such times as the board of directors may appoint.

The proceedings of the meetings must be reduced to writing, signed by the subscribers and delivered to the commissioners, who must return and the the same with the judge of product. The other designated in receive the subscriptions must make a from which of the subscribers he has received the cash payment and from which he has received contracts as above mentioned. This copy must also be filed in the office of the judge of probate typon the filing of these papers the judge of probate issues a certificate of incorporation.

Powers or Convorcations, 1. To have succession by the corporate name for the period expressed in the declaration; and, if a period of time he not expressed in the declaration; and, if a period of time he not expressed in the declaration; of and convey such real and personal property as the nature of and convey such real and personal property as the nature of its business and the purposes for which it is formed may require. A To appoint such officers and agents as may be deemed necessary for the transaction of its business and the management and control of its affairs and property, 5. To made all needful by laws, rules and regulations for the transaction of its business, the

management and control of its affairs, and the uses and disposi-tion of its property and for the transfer of its stock, and for the creation and preservation of a lien upon the shares of its stock-holders for the payment of any debt or liability they may incur to the corporation. 6. To carry on the business or accomplish the purposes expressed in the deciaration. 7. To horrow money, and to mortgage or otherwise convey or piedge its property, real or personal, and lis frameliess, to scener the payment of the property of the payment of the property of the property of a rate of interest exceeding eight per cent, payable semi-animality nor must such mortgage, conveyance or piedge be made other-wise than by the consent of the holders of the larger part in value of the capital stock, expressed by vole, at a meeting of the stock-holders called for that purpose, of the time and place of which notice is given each stockholder personally, whose residence is known, and by publication for four consecutive weeks in the messpaper published nearest the place of business of the co-poration.

miner's given by publication for four consecutive weeks in the known, and by publication for four consecutive weeks in the portain.

ADDITION 1. Towers, Since corporation, when duly organized, has, in addition, power to locate, construct and operate, to and from its mines, furnaces, mills, factories, quarries or other works, railways, trainways, canals or roads, or to acquire by works, failways, trainways, canals or roads, or to acquire by works, failways, trainways, canals or roads, or to acquire by works, failways, trainways, canals or roads, or to acquire by the mines, or back to and with the principal place of its in mes, its mines, furnaces, mills, factories, quarries or other work, and any public highway, turnpike, meadamized, plank or other graded road, or railroad, or navigable waters, or to or with its mines, or backs, coking or cooling grounds, or timber lands; or canals or aqueducts to and from its mills or factories, or fur comparation has also power to transport, as a common certier, persons or property on any railroad, or other road, or onny canal or aqueduct, constructed or purchased by it, taking reasonable compensation. If necessary in the construction of such canals, aqueducts, railways, trainways or roads, the corporation has prover to condenna lands, or an interest or easement therefore the condenna lands, or an interest or easement therefore the propertion of the day, which was not appeared to condenna lands, or an interest or easement therefore the propertion of the day, and right of way not reveceding one hundred feet in walth throughout the whole length of such canal, aqueduct, railway, trainway or toad, and without the consent of the owner of the land, the same must not be constructed through the yard, garden, orchard, stable-lot, gin-house, learn or through the yard, garden, orchard, stable-lot, gin-house, learn or through the yard, garden, orchard, stable-lot, gin-house, learn or through the yard, garden, orchard, stable-lot, gin-house, learn or through the yard, garden, orchard, stab

NAME AND CHARTER OF NEW CORPORATION.—The consolidated corporation, may adopt the name and charter of either corporation, and may make such changes as to amount of stock and directors as may be deemed proper.

PROPERTY RIGHTS AND LIMBILITIES OF NEW CORPORATION.—The consolidated corporation is entitled to all the property and rights of each, and liable for the debts of each, and pending suits shall proceed in the name of the consolidated corporation.

erty and rights of each, and liable for the debts of each, and pending suits shall proceed in the name of the consolidated coporation.

BOARD OF DIRECTORS.—Are elected annually by the stock-nodders. Vacancies are filled by the board of directors.

INCERSE OF CAPTALN-FOCK.—Capital stock may be forced to a sum not exceeding can million dollars, by order of the consolidated for the pending of the million dollars, by order of the consolidated for this purpose must be given each stockholder needing called for this purpose must be given each stockholder personally, and by publication in a newspaper published in the place where the corporation is located. The proceedings of the meeting, signed by the president, must be given each stockholder personally, and by publication in a newspaper published in the office of indigo of probate. Stockholders are entitled to a preference in taking the increased stock.

MAY ALTER OR, AMEN FIFTO THE STOCKHOLDERS STOCKHOLDERS AND PUBLICATION AND FIFTO THE STOCKHOLDERS AND HIGH OF THE STOCKHOLDERS AND PUBLICATION ASSESSED AND ALTER OR AS

rice of process on stein agent shall be decread and taken as sery loce of process on the corporation. (Acts of Alabama, 1888-89, page 76.)

SERVICE OF PROCESS is obtained against a corporation by leaving copy of same with the president, or other head thereof, secretary or agent. (Code of Alabama, Sec. 2857.)

Stockholders are personally liable only for amount of unpaid subscription on stock. (Constitution of Alabama, p. 47, Sec. 8.)

FOREIGN CORPORATIONS.—No foreign corporation shall do any business in this state without having at least one known place of business and an authorized agent or agents, therein; and such corporation may be sued in any county where it does husiness by service of process upon an agent anywhere in this state. (Constitution of Alabama, p. 47, Sec. 4.)

(In the office of the secretary of state at Montgomery, and changes of agents must in like manner be filed. Any person acting for such corporation before compliance with the act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with the act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with the act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with the act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with the act is subject to a penalty of \$500, and any company so transacting business within the state before compliance with the act is subject to a penalty of \$500, and so the corporation before compliance with the act is subject to a penalty of \$500, and \$5

Liens of mechanics and material-men, under Sec, 3018, code of Alabama, et seq., and as amended by acts of 1890-90, page 578, are governed as follows:

LIENS DELLARED. E-Every mechanic, firm, association, corporation or other person furnishing labor or material for any building or improvement or utility on lamb by contract with the sowner. The lien of the employees of the contractor for work or material shall extend only to the unpaid balance due to contract or in the contract of the owner. The lien of the employees of the contract of the owner shall before payment demand a list of the persons furnishing labor or materials, with the terms and price thereof, which the owners shall before payment demand a list of the persons furnishing labor or materials, with the terms and Else subjects the property to a ten for the full amount due to material-men and employes from the contract. Failure to demand shell Else subjects the property to a ten for the full amount due to material-men and employes from the contract of the stript to a feet of the property of the contract of the stript of the stri

lien, that he looks to the building or improvement for the payment of his claim.

PRIORITY OF LIEN.—Such lien has a priority over all other liens, mortgages or incumbrances on the land subsequently crated, and as to buildings or improvements shall have priority whether such mortgage or freumbrance was subsequently crated or existing at the limb and proper may be enforced by the sale of such building or improvement, which may be removed by the sale of such building or improvement, which may be removed by the purchaser,

purchaser.

How SUITS ARE BROUGHT—In suits brought to enforce a lient the complaint shall contain a description of the property on which the lient is claimed as use other facts necessary to entertheir the state of the contained as the conference the excessary to entertheir suit be made as to non-residents upon whom process cannot be served, as in attachment cases. The lien may be encreed either in the circuit or other court of like pirtsidition, or chancery court, except liens under \$100, which must be enforced in justice court.

ENFOREMENT OF JUDGRENTS.—Judgments establishing liens are enforced by writs of fieri facias or venditioni exponas.

LIEN MAY BE ASSIGNED.—The lien may be assigned is thereby invested with all the rights and remedies of the original holder.

COSTS AND ATTORIEVS FEES.—The lien when enforced by

COSTS AND ATTORNEYS' FEES.—The lien when enforced by suit covers all costs and an attorney's fee, in the discretion of the court, not exceeding \$25

#### MILLIDAMS.

The laws relating to dams for mills, gins and factories, under Sees, 3184 et seq., code of Alabama, are as follows:

ERECTION OF DAMS.—A dam for any water gristmill, sawmill, gin or factory to be operated for the public may be creeted across any water-course, not a navigable stream, by the owner in fee of both sides, or of one side.

APPLICATION.—A unification in writing for such a regular mast.

ann water-course, not a navigable stream, by the owner in fee of both sides, or of one side.

APTLICATION,—Application in writing for such errection must be made to the budge devolution in writing for such errection must be made in the control of the property of applicant, application must be made in country where the dam is to be erected; if by owner of one side only it must be made in the country opposite where proposed site of the dam lies. The application must set forth the right of applicant to make same, the purpose of the dam less. The application must set forth the right of applicant to make same, the purpose of the dam, description of the land by sectional division and subdivision township and range, and more of opposite side and residence it known, and whether such owner is of sound mind and of full age. West of 2 Application, the side of the proposite side and residence in the application, township and fifteen on more than thirty days from the fluctuation of the application, to make the proposite owner, which may be served upon his agent to tend and the proposite owner, which may be served upon his agent or tend and the proposite owner, which may be served upon his agent of the application of the server of the application of the applica

a. To ascertain whether the health of the neighborhood will probably be endangered.

4. To ascertain whether any other mill, gin, factory or water-works will be overflowed, and the probably be endangered.

4. To ascertain whether any other mill, gin, factory or water-works will be overflowed by LAND ON OFFOSTE SIDE TO BE AND OFFOSTE SIDE TO SIDE TO BE AND OFFOSTE SIDE TO

## THE MINING DIRECTORY-LAWS.

factory is destroyed or materially impaired, the same must be rebuilt or repaired within three years hereafter; but if the owner of such dains an intain three years hereafter; but if the owner of such dains an intain error the removal of such disability, to commence, finish, pred, or repair.

WHEN CHNALON, "The same proceedings are necessary as when all the proposed to creet a dam, or the sum of the removal of such disability, to complete the conditions required by law operates as a revocation of the strait, and the land reverts to its former or such as the sum of the strait, and the land reverts to its former or such selicis. Who MAY CONTEST APPLICATION. Any person making allowing that he is interested, and giving complete the party and contest such applied. ALMISING. DAYA WITHOUT ALTHOUTHY—Any person building a dam or other obstruction across a water-contest such applied. RAISING. DAYA WITHOUT ALTHOUTHY—Any person party is making allowed the party injured thereby.

APPLALS. Any land-cowner, if dissatished with the assessment of damage—narile or had, may appeal within twenty days to the circuit court of the county, on giving security for costs.

## ALASKA

The United States uning laws are the laws in force and relating to mining in the district of Alaska. See "organic act," an act of congress upproved May 17, 1884, Seeflon 8, entitled "An There is no special statute relating to quarries and the courts "quarries" are classed as placers, but under the quarries may be located and pattern "placer mining of the courts "quarries" are placer mining or stone quarry claim, "the patendes all minerals found within its bounds, except heating before heating all minerals found within its bounds, except heating before patent. (see Frazer x) Sweeny, "The aforementioned "organic act" provides up to the same heating and the general laws of the state of tregon now force are hereful placed in the processing of the same by applicable and not incombine the provisions of this act or the laws of the united States, etc.; hence the laws of tregon in force on May 17, 1884, are the laws of Alaska relating to heats.

## ARIZONA

Compiled by FRANCIS J. HENEY, Attorney at Law. Tueson, Ariz.

The ambiguities, bad grammar and worse punctuation contained in the following digest are due to literal translations of sections of the code which have not as yet been construed by our courts, F. J. H.).

## CORPORATIONS.

CORPORATIONS.

MINING, FORMYTIAN OI. — Any number of persons may associate themselves together and become incorporated for the managed of any lawful business. Articles of incorporation of any lawful business. Articles of incorporation of the place of transacting business. Articles of incorporation and principal place of transacting business. 2. General batture of the business proposed to be transacted.
3. Amount of capital set is to be paid in employing the place of transacting business. It is not be paid in the secondard of the place of the pla

office of the secretary of the territory where such filing is necessary, within three months from such filing in the recorder's office. No change in any of the foregoing particulars shall be raid unless recorded and published as the original articles are required to be; nor shall any change be made at any time or in any manner which would be inconsistent with the provisions of this act.

The construction shall not be accounted to the first construction of the co

in anner which would be inconsistent with the provisions of this set.

The corporation shall not be dissolved prior to the period fixed upon in the articles of incorporation, except by majority of steek of its members, unless a discontinuous less adopted in the articles of incorporation, except by majority of steek of its members, unless a discontinuous less adopted in the articles. And no such premature association shall take place, unless preceded by the premature association shall take place, unless preceded by the premature association shall take place, unless preceded by the premature association of the premature and in falling or refusing to comply substantially with the articles of incorporation shall be a misdementor, and, upon indetenment and conviction in a court of competency and, upon indetenment and conviction in a court of competency and, upon indetenment and conviction in a court of competency and, upon indetenment and conviction in a court of competency and in the set of the set of the present and the proposal of the present and the prese

erty of such marvidual.

For the purpose of making repairs, building or enlarging or extending works, or to meet contingencies, or for the purpose of providing a sinking further the parment of debts, the corporation may exhibit a former of the marvidual and to the same out from time to thin all cases a good and sufficient security for the payment of the same.

In any proceeding by or against a corporation, the court shall have the power to compel the officers of the corporation, or motion of either party, upon proper cause being shown, to, pro-duce the books of the corporation, and when so produced either party may use the same in evidence.

party may use the same in evidence.

Persons acting as a corporation under the provisions of this act shall be presumed to be legally organized until the contrary is shown, and no such franchise shall be declared to be actually induced in the contrary in the purpose. No persons acting as a corporation spirit for that purpose. No persons acting as a corporation spirit of provisions of this act shall be permitted to set up of action brought want of a legal organization as a detense to any action brought against them as a corporation, nor shall any person who may be sued on a contract made with such corporation or suct for an injury done to its property, of for a wrong done to its interests, be permitted to rely upon such want of legal organization in his deciense.

permitted to rely upon such want of legal organization in his decicies.

No corporation organized under the provisions of this act for for the purpose of doing a mining or manufacturing business shall have power to construct or or ray leave the provisions of this act for for the purpose of doing a mining or manufacturing business shall have power to construct or or ray leave the principal works of the provision of the property of the property

months after the commencement of such absence of such agent, months after the commencement of such absence of such agent, the right to transact business by the corporation represented by such agent shall cense, and all acts or contracts performed or made thereafter shall, at the option of any person interested, be created that the contract of the properties of the contract of the properties and privileges enjoyed by any company organized under the territorial laws; provided that a corporation organized under the laws of any foreign country shall take, received possess, hold, acquire or own at any one time not more than three hundred and twenty acres of real estate, exclusive of unities and unineral hands and hand necessary or convenient for milling, smelting, reducing or working ores, or for manufacturing or commercial purposes.

All persons who may labor or furnish material of any kind in the construction, alteration or repair of any canal, water-diffel, finne or aqueduct or reservoir, bridge, fence or other structure or improvement, and to whom money or wages are due or owing therefor, shall hereafter have a lien upon the same for such sums as are unpaid. All miners, kiborers and others who may labor and all persons who may furnish material of any kind designed or used in or upon any mine or mulning clabs, and to whom wages are the for such labor or in. The word agent as used in the same of the same fact shall be construed to include a contractors, sub-contractors, architects, builders and persons who have the charge or control of any mine, mining claim, canal, water-ditch, time, aqueduct, reservoir, fence, bridge, mill, manufactury, hoisting-works or other property or thing upon which labor had been performed or material turnished. The lieus provided for in this act are preferred to all lieus, mortgages and other meanismenced to the charges of which the lieu-hoider had no notice, either actual or constructive, at the time be commenced the labor or commenced to furnish the material.

No lieu created by this act/shall continue for a longer period than six months after the filing thereof in the county recorder's filice of the proper court to enforce the same. It is not that where their interests do not conflict, and in case as public of interests a part may be joined as plaintiffs and a part may be made defendants. The assignce of any contract or account found enforce the scane as it he lead been the original owner or holder thereof.

The procedure beginned as it he lead been the original owner or holder thereof.

holder thereof.

The procedure to enforce the lien provided in this act—shall—be the same as in other civil cases.

#### MINING.

The mining districts heretofore or hereafter created in the several counties of this territory are hereby authorized and empowered to make all necessary rules and regulations for the location, registering and working of mines therein; provided, that all locations and registrations of mines and mineral deposits hereafter made shall be field with the county recorder for record within sixty days after the same shall have been located. Size of claim, manner of location and annual work required to be a manner of location and annual work required to be a made of the county recorder for record within sixty days after the same shall have been located. Size worked upon the same or separate lodes, have a common ingress or common drainage, they shall bear their proportionate share of such drainage expense to prevent the flowing of water upon neighboring mines. In case of failure to drain whereful to provide the drainage expense to prevent the flowing of water upon neighboring mines. In case of failure to drain whereby occupants of adjacent or contiguous mines are compelled to provide the drainage repulsed to provide the drain proportion of actual and necessary cost of providing for said water; to be recovered by action. Common interests may unite in draining such mines as a corporation, with all the rights, incidents and labolities of a body corporate so far as the same may be applicable. Failing to agree so above indicated, one or more of said parties, after reasonable notice to others interested, may drain, dividing and recovering recover such expense, examination of the names may be had before trial under order of court upon at least three days' notice; recover such expense, examination of the names may be had before trial under order of court upon at least three days' notice; to make said examination. These provisions do not apply to unopened or undeveloped mines.

MENERS, flow Solo at Priorate Court, "Mines or interests therein belonging to estates of decelorats may be soil by order by party in interest, and personal

#### WATER-RIGHTS

The common-law doctrine of, riparian rights is aboilshed. All rivers, receks and streams of running water are public and applicable to the purposes of irrigation and mining. Rights in acceptais, or irrigating canals, herefore established shall not be disturbed, nor the course of such acceptais be changed without consent of the properietors of such acceptais be changed without consent of the properietors of such established rights. Right to irrigate shall be preterable to all others, and shall not be obstructed or impeded by the erection of any dam, mill, machinery, or by any sluice or dyke, except for mining purposes or reduction of metals as hereinatter provided. When reduction-works or other mining apparatus shall be placed upon lands previously The common-law doctrine of riparian rights is abolished.

held for agricultural purposes the holder thereof shall be en-titled to a remuneration to be fixed by appraisement of damages, EMINENT DOMAIN.—The right of eminent domain may be ex-creised in behalf of canals, ditches, flumes, aqueducts and pipes, for public transportation, supplying mines and farming neigh-borhoods with water, etc., roads, funnels, ditches, flumes, pipes and dumping places for working mines; also outlets, natural or otherwise, for the lowed-posit or conduct of failings or refuse or passessors of different mines of any place for the flow, de-posit or conduct of failings or refuse matter from their several mines.

## ARKANSAS

Compiled by C. B. MOORE, Afterney at Law, Little Rock, Ark,

#### CORPORATIONS.

CORPORATIONS.

There are no constitutional or statutory provisions especially relating to mining or quarrying companies. They are incorporated under a general law, provided for all incorporated conjunies, by filing articles of theorporation in the office of the secretary of state. There is no system of official examination, and no reports are made, except statement required to be made to assessor for the purpose of taxation.

There are no fornas prescribed by the law for incorporation of such companies. The corporation may be formed by three or more persons entering into articles of association for that purpose. The directors must be at least three in mumber and chosen annually. They elect the president (who must be one of their number; and the other officers. The articles of association, with a certificate, sworm to by the directors, must be filed with the secretary of the control of the proporation of the street of the sasociation, but may be increased at a meeting of the stockhole of the propose. The stock can only be transferred on the books of the corporation in such form as the directors preserve, A certificate of such transferred must be deposited with the county elects and the nutleary stock models is built the county elects and the hotel by him in a book kept for that purpose. The stock can only be transferred to the proporation in such form as the directors prescribe. A certificate of such transferred position in the date of the transfer of his stock. It is not necessary to advertise sale of stock in order to be releved of liability.

All laborers, including uniners in this state, who perform work under a written or verbal contract, have an absolute licen on the modestion of their hadro and for materials furnished, when unpaid for the same. To avail themselves of such lien they must lie a sworn statement in the court having jurisdiction of the amounts, showing amount due, with list of fand, property, crops or other production of abor and materials furnished. This sworn statement answers the place of an attachment. Such proceedings must be commenced within eight months after the work is done. Summons issues and trial is had as in ordinary suits, if served thirty days before day of trial in circuit court and ten days before a justice of the peace.

#### MILLDAMS.

Milldams may be erected at will across non-navigable streams, by the owner of the land or stream, unless likely to cause damage to the property or health of others. If likely to so damage others, a petition must be filed in the circuit court and a writ of a constant of the constant of

The constitution provides for such laws as will foster and aid the agricultural, mining and manufacturing interests of the states and for the health and safety of persons composed in the states and for the health and safety of persons composed in the states and represented by the commissioner of mines, manufacturies and agriculture. His duties, so far as mines are concerned, to keep a record of all individuals, companies and incorporations engaged in mining for coal, manganese, silver, lead, copper and other minerals, and of all persons and companies information as to extent of deposit, output, cost of production, etc., also to obtain information from persons owning mineral lands, as to locality, character of minerals, facilities for working and transportation, etc. He is required also to methodically arrange all such statistics, so as to furnish useful information to immigrants and persons seeking to invest capital in the state.

## CALIFORNIA

#### CORPORATIONS.

Compiled by Georgia A. Journson, Attorney at Law, 44 Sansome st., San Francisco, Cal. (late Attorney-General).

Private corporations may be formed by the voluntary associa-tion of live or more persons, a majority of whom must be resi-dents, and for any purpose for which individuals may lawfully associate themselves.

Private corporations may be formed by the voluntary association of five or more persons, a majority of whom must be residents, and for any purpose for which individuals may lawfully associate themselves.

1. The name of the incorporation.

2. The purpose for which it is to rest, forther it is the case of the incorporation.

3. The purpose for which it is to casts, not exceeding fifty years.

5. The number of its directors or trustees, which shall not be loss than the nor more than elsewin, who must be members of the corporation, and the names and residences of those who are corporation, and the names and residences of those who are the corporation, and the names and residences of those who are corporation, and the names and residences of those who are the committee of the capital shock, the amount actually subscribed, and by whom.

1. The fining the articles of incorporation in the offler of the country elect of the country in which the pencipal business of the company is to be transacted, and; copy thereof, certified by the country elect of the country in which the pencipal business of the country elect of the country in which the pencipal business of the country elect of the country in which the pencipal business of the country elect of the country elect of the country election o

the "Book of By Laws." The by-laws may be repealed or amended as prescribed.

Electrons, The directors of a corporation must be cleeded aminally by the stockholders, and it no provision is made in the by-law for the time of election, the election must be held on the by-law for the time of election, the election must be held on the by-law for the time of election, the election must be held on the first Thresday in June. All elections must be by ballot, and every stockholder shall have the right to vise in person or by proxy for as many persons as there are directors in the election of by the content of the election of the must be a many causi-dates as he shall think fit. Immediately after their election, the directors must organize by the election of a president, who must be one of their number, a secretary and a treasurer. At all elections or votes had for any purpose there must be a majority of the subserbed capital stock, represented either in person or by proxy in writing.

elections or voices had for any purpose there must be a majority of the subscribed equital stock, represented either in person of by proxy in writing.

DIRECTORS—A majority of the directors constitute a quorum, and every decision of a majority of a quorum is valid as a correct of the construction of the composition of a majority of a quorum is valid as a correct of the construction of the subscribed capital stock. For a vloiding of the stockholders any part of the capital stock, for must they divide, withdraw or pay to the stockholders any part of the capital stock. For a vloiding of the above, the directors except those who caused their dissent to becentered on the minutes, or who were not present are in their individual and private expansity bondy and severally event of its dissolution, to the full amount of the capital stock so divided, withdrawn, paid out or reduced, or debt contracted, and ostante of limitations is a bar provided, however, that where a corporation has been or may be formed for the purpose among other things of acquiring, holding and selling real estate, water and water-rights, the directors of such corporation may, with its stockholders the land, water or water-rights so by such corporation helds. In meeting called for that purpose, divide among the stockholders the land, water or water-rights so by such corporation held, in the proportions to which their holdings of such stock at the time of such division would entitle them; all convexiones to be subject to the debts. Nothing shall prohibit a division and distribution of the capital stock which re-

mains upon the payment of the debts, upon the dissolution of the corporation or the expiration of its term of existence.

That F of MERTINGS. The meetings of the stockholders and board of directors of a corporation must be held at its office or may be created may change its principal place of business from may be created may change its principal place of business from one place to another in the same county, or from one city or county to another city or county within the state. Before such lange is made consent in writing of holders of two-thirds of the capital stock must be filed in the office of the corporation, and when this is done, notice of the intended removal or change must be published for three successive weeks in some news paper must be published for three successive weeks in some news paper must be published for three successive weeks in some news paper must be published for three successive weeks in some news paper must be published for three successive weeks in some news paper must be published for three successive weeks in some news paper of adjoining county, giving the name of the county or city where it is studied, and to which it is intended to remove at . (See also statutes of 1833-44, page 76, in respect to mining companies changing their principal place of susiness).

LAMILITY OF STOCKHOLLERIS. Each stockholder of a corporation is uniformially and personally hable for such portions of lay him bears to the whole of the subsended capital stock or shares of the corporation, and to raik proportion of each debt against the corporation, and to raik proportion of each debt against the corporation, and to see that the corporation will be proportion of each debt against the corporation, and to raik proportion of each debt against each defendant, in conformity therewith. If any stockholder proportion of this claim payable by each, the court to ascertain such proportion of this claim payable by each, the rount to ascertain such proportion of the ways as the proportion of the corporation and to a succe

ment must be leviced while any portloro of a previous one terminal mignid, eveep it necrtain cases specified. Every order levying an assessment must specify the amount thereof, when, to whom and where payable; it is a day on which the impaid assessments shall be delinquent, not less than thirty nor more than sixty days from the time of making the order levying the assessment, and a day for the safe of delinquent stock, not less than fifteen nor more than sixty days from the day the stock is declared delinquent, and the safe of delinquent stock, not less than fifteen nor more than sixty days from the day the stock is declared delinquent, of. The notice must be personally served upon each stockholder, in liter of this, must be sent through the mail addressed to each stockholder at his place of residence if known, and be published once a week for four successive weeks at places stated. If my portion of assessment mentioned in the notice remains impaid on the day specified therein for declaring the stock delinquent, the secretary, musts otherwise ordered by the directors, must published for the days excluding somalays and holidays, previous to the day of safe, and when published in a daily paper must be published for the days, excluding somalays and holidays, previous to the day of safe, and when published in a weekly it must be published in the day side. The first publication of all delinquent safes must be at least life. The true that is necessary to pay the assessments due and costs of safe. The safe must be at public anction, to the highest bidder for each, it payment is made before the time lived for safe, the party paying is only required to pay the assessments due and costs of safe. The payment is made before the time lived for safe, the party paying is only required to pay the assessments due and costs of safe. The safe must be a to be a safe, and costs of safe, and the safe safe and charges, and entry of the transfer must be made on the books. The payment is made and costs of safe, the party secking on pay

of a complaint and the Issuing of a summons within six months after such sale. At any time before the sale of definiquent stock, the board of directors may elect to waive further proceedings for the collection of definiquent assessments, and may cheef to proceed by action to recover the amount of the assessment and costs.

by action to recover the amount of the assessment and costs and expenses.

Corporation does not organize and commence the transaction of its business or the construction of its works within one year from the date of its incorporation, its corporation powers cease. No corporation shall issue stock or bonds except for money paid, abor done or property actually received, and all actitions increase or diminish its capital stock, create for money paid, bonded indebtedness in the capital stock, create commenced or diminish its capital stock, create from the commenced or diminish its capital stock, create from the commenced or hold any more real property than may be reasonably necessary for the transaction of its business, or the construction of its point and of all meetlines of directors or stockholders, also a stock and a transfer book, which are to be open to the inspection of any stockholder or creditor. The lensistium may at authorized the construction of the properties of the properties of the construction of the

holders or officers, for any flability which has been previously inturred.

The dissolution of corporations is provided for, which may be
either voluntary or involuntary. Unless other persons are appointed by the court, the directors or managers of the affairs of
such corporations at the time of their dissolution are trustes
of the creditors and stockholders, and have full power to settle
the affairs of the corporations.

SERVICE ON FOREIGNATION —By a statute continuous and doing hustiness here, shall, within stay days from the
time of commencing to do business in this state, designate some
erson in the county in which the principal place of business is,
upon whom process hay be served, and within the time aforesaid
shall file such designation in the office of the secretary of
state, and a copy of such designation, duly certified by said officer,
shall be evidence of such appointment, and it shall be tavial to
serve on such person any process. Such service shall be unade on
such person in vieth manner as shall be prescribed in case of service to be made on foreign corporations. Where such them
this state acting as the agent of said corporation or doing business for them.

#### MINING

MINING.

SPECIAL PROVISIONS IN REGARD TO MINING CORPORATIONS.—Any corporation organized in this state for the purpose of mining or carrying on mining operations in or without this state may establish and maintain agencies in other state, and a transfer or issue of the transfer and issuing of the agency, in according to the same of the special of the same of the special of the same of the by-law, in a constitution of the special of the special of the within this state. The agencies must be governed by the by-laws and the directors of the corporation, and all stock of any such corporation such as transfer agency must be signed by the president and secretary of the corporation, and countersigned at the time of its issue by the agent having charge of the transfer agency. No stock must be issued at a transfer agency where its state is the time of its stock in lieu of which the same is issued is at the time of its stock in lear of which the same is issued is at the time of unconstructions of the same is to stock.

miless the certificate of stock in their of which the same is issued is at the time surrendered for cameellation.

Two or more corporations formed most when the same is issued is at the time surrendered for cameellation.

Two or more corporations formed mossess mining chims or individual and in the same vicinity, may consolidate their capital stock, debts, property, assets and franchises as may be agreed upon by the respective boards of directors, but such consolidation shall not take place without the written consent of the stockholders representing two-thirds of the capital stock, and shall not refleve the stockholders of such temporates from any nutice shall be given by advertising for one month as prescribed. When the consolidation is complete, certificates are to be fitted in the county elect's office, and in the office of the board of directors for the consolidated companies is to be chosen by the stockholders for the year thence ensuing.

By a state of the stock showing all receipts and expenditures, courses and objects, and all transfers of stock, during business fours, open to the inspection of any bona fide stockholder, who is entitled to be accompanied by an expert, who can make copies that the stockholders and objects, and all transfers of stock, during business fours, open to the inspection of any bona fide stockholder, who is entitled to be accompanied by an expert, who can make copies to the stockholder in the stockholder who is entitled to be accompanied by an expert, who can make copies to the stockholder of the stockholder of the stockholder of the stockholder who is not a superior of any bona fide stockholder, who is entitled to be accompanied by an expert, who can make copies to the stockholder of the stockholder of the company of the stockholder of the company of the stockholder of the stockholder of the company of the stockholder of the stockholder of the company of the stockholder of the stockholder of the stockho

the work done in the mine, the amount of ore extracted, trom what part of the mine taken, the amount sent to mill for reduction, its assay value, amount of buillon received, amount shipped, and amount, if any, retained by the superintenheur, also to forward to the company's office at the superintenheur, also to forward to the company's office at the superintenheur, also to forward to the company's office at the superintenheur, also to forward to the company's office at the superintenheur, also to forward to the company's office at the superintenheur, also to the superintenheur, and to be open to the inspection of all stockholders. Any bona fide stockholder is entitled to visit with his expert and examine the mine at any time he may see fit; and when he shall make applied to the fine at the superintenheur to the superintenheur to the mine at any time he may see fit; and when he shall make applied him with every facility for inspection, accompanying him in person or detailing someone who is familiar with the nine. A penalty is provided for disobedience by superintendent or by the president, and also in case of the failure of the directors to have reports and accounts poster.

A MINING CLAUT IS READ TO THE WAY OF THE ALL OF THE WAY OF TH

If the above that is not real is personal.

MANNOS (CASSOMS—In actions respecting mining claims, proof must be admitted of the customs, usages or regulations established and in force at the bar or diggings embracing such established as the customs, usages or regulations, when not in conflict with the laws of this state, must govern the decision of the action.

#### DECEDENTS' ESTATES

When the inventory of the estate of a decedent discloses that his estate consists of any mine or interest in a mine, the same may be sold as follows: The executor or administrator, or any heir or creditor, or any partner of the consequence of administration, and particularly describing the mine or shares which it is desired to self, and condition and stration of the mine, interests, or of the mining company, and the grounds upon which the sale is asked. The court must make an order directing all persons interested to appear before such make an order directing all persons interested to appear before such make an order directing all persons interested to appear before such it is a consequence of the order of the order of the consequence of the consequence of the order of the consequence of the consequence of the order of the consequence of the consequence of the order of the consequence of the c When the inventory of the estate of a decedent discloses that

## EMINENT DOMAIN

EMINENT DOMAIN.

THE RIGHT OF EMINENT DOMAIN FOR MINING PURPOSES AND RIGHT OF WAY.— The right of eminent domain may be experised in behalf of the following public ness: Wharves, doeks, piers, chites, booms, ferries, bridges, foll-road-by-road-special and turnpile roads; strength of the property of the

across, under or upon which he seeks to establish such right of way or place of deposit, then it shall be lawful for han to present where such edin is still then it shall be lawful for han to present where such edin is studied a pettlinion, praying that such right of way or place of deposit be awarded to him, the petition to be on oath and to contain a particular description of the mine or claim of petitioner and of the claim or land to be affected by such right or privilege, with the name of the owner or occupant thereof, and to state that she right or privilege has not been acquired by the allowance thereof by the court or pideg and the appointment of three commissioners to assess the damages. Upon the filing thereof elation to issue to show cause, which shall be served like a summons. After hearing the allegations and proofs, if the court or ladge is statished of the truth of the petition, he shall make an order agreeably to the petition, and appoint three disinterested proceed to examine the mine or claim of the petitioner, as well as the claim or land to be affected; may hear testimony relative to the damages, and report in writing, designating the course or line and dimensions of the road, ditch, drain, hume or tunel, or the place of deposit payed for, also the value of the lands to be appropriated for such right of way or place of deposit and the appointed, which shall proceed as the first. If no motion to set aside the report, or if the defined, the same shall be lind. Upon payment of the damages, then petitioner shall be entitled to the right of way or place of deposit as designated by the report, and, upon making payment, may proceed to occupy the line, route, way or place of deposit as designated by the report, and, upon making payment, may proceed to occupy the line, route, way or place of deposit as designated by the report, and upon making payment, may proceed to occupy the line, route, way or place of deposit as designated by the report, and upon making payment, may proceed to decept the contribu

the right of eminent domain.

There is an act continued in force making it unlawful for any corporation or owner of any quartz inline within the state, where as many as twelve men are employed, to sink down into such mine any perpendicular shaft or incline beyond a depth from the surface of three hundred feet, without providing a second mode of egress from such mine, by shaft or tunnel, to connect with the main shaft at a depth of not less than one hundred feet from the surface, and providing also for the recovery of damages in case of accident.

of accident.
There is a statute continued in force in reference to corporations organized in this state for the purpose of mining out of this
state, and whose business office is in this state, authorizing them
to levy assessments upon the capital stock thereof to pay the
debts of said corporation, or to carry on the business of said corporation, provided the same shall be repeal and uniform, and at
no one time exceed they per cent, of the capital stucks.

### WATER-RIGHTS.

The right to the use of running water flowing in a river or stream, or down a canon or ravine, may be acquired by appropriation. This must be for some useful or beneficial purpose, and when the appropriator or lifs successor in interest ceases to use it for such a purpose, the right ceases. The person entitled to the use may

change the place of diversion, if others are not injured by such change, and may extend the diftch, flume, pipe or aquedict by which the diversion is made to places beyond the first use. The water appropriated may be turned into the channel of another material and the channel of the change of the properties of the pr

was posted, but a failure deprives the claimant of the right as against a subsequent claimant who complies.

LIENS.

Miners and persons and laborers of every class, performing labor upon or furnishing materials to be used in the construction, alteration and continued to the contract of the contract of

or after the completion of the alteration, addition to or repair thereof, or the performance of any labor in a mining claim, must file for record with the county recorder of the county in which such property or some part is situated a claim containing a state-ment of his demand, after deducting just credits and offsets, with a mane of the person by whom he was employed, or to whom he furnished the materials, with a statement of the terms, time given and conditions of his contract and also a description of the prop-erry to be charged with the lien, sufficient for identification, which claim must be verified by the oath of binset! or of some other person. Acceptance of the said Improvement, or cessation trought and the said of the contraction of the control abort con-trol abort pairwise; to a common of the control of the con-one claim is filed against two or more buildings, mining claims or other improvements owned by the same person, the person tiling or after the completion of the alteration, addition to or repair with chain must be verified by the oath of himself or of some other person. Acceptance of the said improvement, or cessation from tabor for thirty days upon any unfinished contract, shall be deemed a probability of the person in the person tilling state of the person tilling state of the person tilling state of the person tilling such claim must, at the same time, designate the amount disparded and the person tilling such claim must, at the same time, designate the amount due him on each, otherwise the lien of such claims to such claim is postponed to other hens. The lien of such claimant does not extend beyond the amount designated, as against other reciliors having lieus by a person to the person tilling such claim must, as a said to the reciliors having lieus by a person to the person to the person of the same are situated. No lieu binds for a longer period than ninety days, unless proceedings be commenced within that time to enforce the same, or, if a credit be given, than ninety days after the expiration of such credit; but no lieu continues in force for a longer time than two years from the time the work is completed, by any any lands with the knowledge of the owner, or the person claiming any interest therein, shall be deemed to have been constructed at the instance of such owner or person, and the interest shall be subject to a hen lifed is above, unless such owner or person shall, within time days after obtaining knowledge of the construction or intended construction; give notice that he will not be responsible to the person of the per

of the last sickness, expenses of administration and the allowance to the widow and infant children, and must be paid before any other claims. In cases of execution, attachment and similar write issued against any person, except for claims for labor done, any miners, mechanics, salesmen, servants, clerks and laborers, or the claims and the amount thereof, sworn to by the chiming to the creditor and the officer executing such writ, at any time before the actual sale of property levied on; and unless such claim is disputed by the debtor or a creditor, such officer must pay to such person, out of the proceeds of the sale, the amount each is entitled to for services rendered within the sixty days expending the levy, not exceeding \$100. If any or all of such claims are disputed, the person presenting the same must contained and action within then days for the recovery thereof, and mence an action within ten days for the recovery thereof, and priority, and the officer shall retain sufficient from the proceeds of the sale to safety such claim until the determination of the action. The debtor or creditor intending to dispute shall within ten days fater receiving such notice serve upon the claimant and the officer a statement in writing, sworn to by him, setting forth that no part of said claim, or not exceeding a specific of sun, is due from the debtor to the claimant fails to recover costs.

MIXING.

MINING.

MINING PARTNERSHIPS.—A mining partnership exists when two or more persons who own or accuracy a mining equit persist when two or more persons who own or accuracy a mining equit person when we work more persons who own or accuracy and the mineral accuracy engages in working the mine. No express agreement to become partners is necessary. The relation of partners arises from the ownership of shares or interests in the mine and working the same for the purpose of extracting the minerals. A member of a mining partnership shares in the profits and losses in the proportion which the interest or share he owns in the mine bears to the whole partnership capital or whole minder of shares. Each member of a mining share in the profits and losses in the proportion which the interest or share he owns in the mine bears to the whole partnership exists now this tanding an agreement among the partners to the contrary. The mining ground owned and worked by partners in mining whether purchased with partnership finds or not, is partnership property. One of the partnership is a mining partnership in may convey his interest in the name and business without dissolving the partnership. The purchaser, from the date of his purchase, becomes a member of the partnership, necessing takes it subject to the hense existing in favor of the partnership, unless he purchased in good faith, for a vainable consideration, without notice of such lien. A purchaser of the interest of a partner in a mine where the partnership is engaged in working it takes with notice of all liens resulting from the relation of the partners in, a mining partnership is engaged in working it takes with notice of all liens resulting from the relation of the partnership, complete of a mining partner ling bind the partnership, except by express authority derived from the members thereof. The decision of the members thereof. The decision of the members thereof.

# CONSTITUTIONAL PROVISIONS.

Each stockholder of a corporation or joint-stock association shall be individually and personally liable for such proportion of all its debts and liabilities confrareded or neurred during the time of the subsective of the subsective of the subsective of the subsective of the corporation or association. The directors or trustees of the corporation sand joint-stock associations shall be jointly and severally liable to the ereditors and stockholders for all moneys embezzied or misappropriated by the officers of such corporation or joint-stock association during the term of such director or trustee.

No corporation shall engage in any business other than that ex-

No corporation shall engage in any business other than that expressly authorized in its charter or the law under which it may have been or may hereafter be organized; nor shall it hold for a longer period than five years any real estate, except such as may be necessary for carrying on its business.

No corporation shall issue stock or bonds, except for money paid, labor done or property actually received, and all fettitions increase of stock or indebtedness of all be void. The stock and bonded indebtedness of corporations shall not be increased experienced by the control of the stock and bonded indebtedness of corporations shall not be increased experienced by the stock of the stock and persons bodding the larger amount in value of the stock at a neeting called for that purpose, giving sixty days' public notice, as may be provided by jaw.

In all elections for directors or managers of corporations, every stockholder shall have the right to vote, in person or by proxy.

may be provided by law.

In the provided by law streeters or managers of corporations, every steckholier shall have the right to vote, in person or by proxy, the number of shares of stock owned by him, for as many persons as there are directors or managers to be elected, or to emulate said shares and give one candidate as many votes as the number of directors multiplied by the number of this stares of stock shall equal, or to distribute them, on the same principle, among as many said and the provided of the provided provided by the number of cooperative societies formed for agricultural, mercantile and manufacturing purposes may vote on all questions affecting such societies in manner prescribed by law. Every corporation, other than religious, educational or benevolent, organized or doing business in this state shall have and maintain an office or derived the control of the provided provided by the control of the control of the provided provided by the provided or doing business in this state shall have and maintain an office or derived by the provided provided by the provi

committees, books in which shall be recorded the amount of capi-tal stock subscribed and by whom; the names of the owners of its stock, and the amounts owned by them respectively; the amounts of stock paid in, and by whom; the transfers of stock; the amounts of its assets and liabilities, and the names and places of residence of its officers.

of its officers.

Corporations may be formed under general laws, but shall not be ereated by special act. All laws now in force in this state concerning corporations, and all laws that may be hereafter passed pursuant to this section, may be altered from time to time or re-

peared. LIENS.—Mechanics, material-men, artisms and laborers of every class shall have a hen upon the property upon which they have bestowed labor or furnished material, for the value of such labor done and material trainfield; and the legislature shall pro-vide by law for the special graph efficient enforcement of such liens.

# COLORADO

Compiled by MANLY & MOORE, Attorneys at Law, Ernest & Cranmer Block, Denver, Colo

#### CORPORATIONS

CORPORATIONS,

Corporations may be formed for any lawful purpose. The corporate name must commence with the word "The" and end with the word "Gorporation," "Company" or "Association," "In the word "Gorporation," "Company" or "Association," in the corporation before an other competent to take acknowledgments, while must ends, sign and acknowledge a certificate of the company, a statement of the objects for which it was created, the amount of its capital stock, the term of its proposed existence (not to exceed twenty years except in life libsurgues corporations), they created twenty years except in life libsurgues corporations, they the manse of the directors or trustees for the first year of its existence, the name of the town or county in which the principal business folice is to be located, and the name of the county or counties in which the principal business is to be carried on. This certificate must be illed in the office of the secretary of state and with the recorder of the county or counties in which the principal form of the county or counties in which the principal business is to be carried on beyond the limits of the state, the crefticate must so state. Unless the certificate expressing authorizes, meetings of the directors may not be held beyond the limits of this state. The fee for filling such certificate with the secretary of state is \$10, and 10 cents for every \$1,000 of capital stock over \$1,000 of

Corporations are required to keep a book containing the names

state is shi, and no cents to revery shoot of capinal scock over singnow. Shares of stock shall not be less than \$1 nor more than Criporathons are required to keep a book containing the names of all persons, alphabeteally arranged, who are stockholders of salle corporation, showing their places of residence, number of shares of stock held by them respectively and the time when they respectively became owners of such shares and when they expectively became owners of such shares and when they expectively became owners of such shares and when they respectively became owners of such shares and when they respectively became owners of such shares and when they respectively became owners of such shares and when they therefore the such shares and when they respectively became owners of such shares and when they therefore the content of the amount that may be unjust upon the stock held by them, and may be proceeded against for such unpaid balance in a suit against the corporation.

The president and a majority of the directors after the payment of the last histalhancent of capital stock are required to hake a certificate to that effect and of the county wherein the business of the company is carried on. Corporations are not allowed to purchase their own stock except such as may be forfeited for the non-appained of assessments thereon. Corporations may purchase their own stock except such as may be forfeited for the non-appained of assessments thereon. Corporations may purchase mines, manufactories or other property and issue stock to the amount of the value thereof in payment therefor, if the certificate of full-paid stock has not been flied, every corporation thereof actually paid in, and the amount of existing debts; the propert shall be verified and filled with the recorder of deeds of the county where the business of the company is carried on; and unless said report is field, all directors and trustees are jointly and severally liable for the company is carried on; and unless said report is field, all directors and

said meeting and a personal or mailed notice to each stockholder, and no assessment shall be due and payable in less than thirty days from the date thereof. If any assessment shall remain unjudy for fifteen days after the same shall be due, the secretary of the company may advertise such shares for said at public ancient, after giving fen days' daily or two weeks' notice, which notice shall be personally served upon the delinquent stock the amount of the assessment remaining overdue and unpuid.

Mining companies shall be managed by not less that three nor more than nine directors, who shall respectively be stockholders in said company, and who shall, except for the first year, be annually elected by the stockholders, a notice of which election shall be pullished increased the stockholders, a notice of which election shall be pullished increased the stockholders, a notice of which election shall be pullished increased the stockholders, a notice of which election shall be pullished increased the stockholders, a notice of which election shall be pullished increased the stockholders, a notice of which election shall be pullished in the stockholders, and the companion of the proportion of the stockholders, and the companion of the stockholders, and the companion of the proportion of the companion of the stockholders, and the companion of the proportion of the companion of the stockholders, and the carrier of the county where the business is dissipated under ordered of the county where the business is carried on, designating an authorized agent residing at such principal place of business upon whon process may be served.

Potentially a stockholder of states and designating an authorized agent residing at such principal place of business upon whon process may be served.

Potentially a stockholder of states shall take effect as against any debt created in any other state shall take effect as against any debt created in any other state shall take effect as against any debt created in any other state shall take effect as

ATTORNEYS' LIENS.—Attorneys at law have a lien upon any more yo property in their hands, and upon judgments obtained, for any fees for professional services in any court in this state. This lien may be enforced by civil action. TAX LIENS.—All taxes beined or assessed upon real and per-

al property are a perpetual lien upon such property until fully

pand.

BUILDERS AND MATERIAL-MEN, whether skilled or unskilled, have a lien for all work done or materials furnished under contract, express or implied, with the owner of any land for improvements made thereon. Sub-contractors in the first degree are those who do work or furnish material under contract with the principal contractor, and all such have equal rights of lien with him. Sub-contractors in the second degree are those engaged under a sub-contractor, and are likewise protected. Limitation of lim six months.

From the control of t

services in and about property. Banchmen, farmers, herders of eattle, bourding-house keepers, tavern-keepers, liverymen, common carriers and warehousemen each have a lien upon the property or stock in their possession for all claims of rent, hire, board, keeping, care or work concerning said property. Also mechanics of every grade and class have the right of lien for making or repairing property.

STATE LIENS—Bate base a lien upon all the property of persons convicted a ferime for the fine and costs of prosecution, property of the fine property of the fine and costs of property of the independent of the fine such execution is delivered to the sheriff.

AUDGMENT LIENS are for six years upon the real estate of every person against whom judgment may be rendered in a court of record, from the time a transcript of the judgment is filed with the county recorder.

#### EMINENT DOMAIN.

Private property shall not be taken or damaged for public or private use, except upon payment of just compensation. Land may be condemned when necessary for the construction. Land, bridges, ferries, tunnels, of the construction of the constructio

It is provided in Article 16 of the state constitution that the water of every natural stream not appropriated before March 14, 186, is the property of the public and dedicated to the use of the isosia, is the property of the public and dedicated to the use of the isosia, is the property of the public and dedicated to the use of the isosia provided by law. The right to divert unappropriation as provided by law. The right converted in the property of the public and dedicated to the use of the isosia purpose. In case of an insufficient supply of water for the same purpose. In case of an insufficient supply of water for the same purpose. In case of an insufficient supply of water for the same purposes, the conveying of water for domestic purposes, for trigation of agricultural lands, for mining and maintacturing purposes, and for drainage, is had upon payment of just compensation. [See Embient Domail, and an indicated by the district court, and based upon the date of actual application to henoficial use. Where any dich is not entitled to its full supply, the water sentially received shall be divided pro rata among all the consumers of reservoirs have the same right of condemnation and right of way as ditch-owners, and may store therein any unappropriated water not needed for immediate use, and may conduct water therefrom into and along any natural streams and take the same out again at any desired point. In case ditches are constructed for the carriage of water to be sold, the board of every commissioners is empowered to fix the maximum rate at which water the subject of the carriage of water to be sold, the board of every commissioners is empowered to fix the maximum rate at which are the subject of the name of the priorities of each respectively. All dithes used for the purpose of irrigation, and collect facts and published in his annual report.

His the data of the purpose of irrigation, and collect facts and published in his annual report.

### MINING

(Citations are as follows: A. C., Acts of Congress; G. S., Gen-ral Statutes of Colorado, 1883; M. A. S., Mills' Annotated Statutes f Colorado; R. S., Revised Statutes United States; S. L., Session

eral Statutes of Colorado, 1833; M. A. S. aling Amounter statutes of Colorado, it. S. dievised Statutes United States; S. L., Session Laws Colorado, it. S. dievised Statutes United States; S. L., Session Laws Colorado, it. S. dievised Statutes and the substitution of Colorado (See, 27 of Art. II) provides the third statutes who are bona tide residents may nequire, hold and dispose of property the same as native-born citizens.

ANNUAL LABORE. Annual labor, commonly called "assessment," was required by district rules prior to May 10, 1872. Since that time state legislation agrees with the act of congress limited dollars, worth of allowing cache calendar year. (R. S. etc. 2824, A. C., Jan. 22, 1884.) Within ski months thereafter, the person for whose benefit the same was performed may file with recorder of the county wherein the mine is situated an affidavit showing performance of the same, and describing lode and stating at whose expense same was performed. This affavit or a certificate copy of same becomes prima function. It is affavit or a certificate copy of same becomes prima function. (This affavit or a certificate copy of same becomes prima function.) A self-control of itself leave a claim open to re-location.

APEX AND DIP.—The location or location certificate of any lode claim shall be construed to include all the surface ground

within the surface-lines thereof and all lodes and ledges throughout their entire depth, the top or apex of which lies inside of such lines specified and their entire depth, the top or apex of which lies inside of such lines are continued by dip beyond the side-lines of the claim, but shall not include any portion of such lodes or ledges beyond the end-lines of the claim or the end-lines continued, whether by dip or otherwise, or beyond the side-lines in any other manner than by the dip of the lode. (f. S., Sec. 2015).

If the top or apex of a lode in its local any point of the surface or acceptance of the claim of the lode of the lod

BULLION.—See "Ore Bayers."

COAL MINES.—A board of examiners appoints inspectors whose duty it is to inspect all coal mines employing more than ten men, and see that the provisions of the statute relating to ventilation, escape-shafts, boilers, signals, hoosting machinery and inspection by skilled bosses are enforced. Severe penalties, both criminal and civil, are provided for non-compliance with these laws.

CRIMES.—There are penal laws concerning the keeping or using of randulent gold-dust seedles, mill send the keeping or using of rebased to provide the property "saffing," removing location trakes or monuments; malicious mischief, dispossession or "jumping" claims by stealth or violence where two or more persons associate together for that purpose.

DIP.—See "ABEX,"

DIP.-See "Apex."

DIP.—See "Apex."

DISCOVERYSHATT.—Must be on the claim and on public diminal at least ten feet deep, show erevice, and he sunk within sixty days. See "Lode," "Location Co.

sixty days. See "Lode," "Location Co.

common ingress of water are obliged to provide for their proportionate share of drainage thereof, and, failing so to do, the cost of such drainage may be recovered if performed by neighboring mine, and party suing is entitled to inspection of mine softrained. This act applies only to developed mines. Party hoisting water losses control and use of same as soon as with a common interest more consecutive to the properties of the properties of the properties. The control and use of same as soon as with a common interest more seen and seen any common corporation for that purpose, (G. 8. Sec. 2016-224; M. A. S. Secs. 3172-3186.)

FORCIDE ENTRY.—Forefible entry, forcible or unlawful detamer, forcible entry and detamer are defined in S. L. 1885, 1887 and 1891, and justices of the peace and the county and district courts have jurisdiction to try the same and grant writs of restitution.

MARON.

IMPROVEMENTS.—It has been held that buildings, to be an improvement as annual labor, must be made for benefiting the claim. See "Annual Labor."

Difference of the control of the property of the control of the co

and of replevin are barred in six years.

Sec. 290.)

LOCATION.—No location of a mining claim shall be made until
the discovery of the vein or lode within the limits of the claim
located. The discoverer of a close within the limits of the claim
located. The discoverer of a close limit in the office of the recorder
the date of intermediate such claim is stranged, by a location certification of the claim in the office of the recorder
of the valid shall contain, first, the name of the lode; second, the
name of the locator; third, the date of location; fourth, the
number of feet in length claimed on each side of the center of the
discovery-shalt; lifth, the general course of the lode as near as
may be. (G. S. Sec. 239); M. A. S., Sec. 3150.)

Before filing such location certificate the discoverer shall locate his claim by: First, sinking a discovery-shalt upon the lode to a depth of at least ten feet from the lowest part of rim of such shalt at the surface, or deeper if mecessary to show a web-defined face a plain sign or notice containing the name of the lode, the name of the locator and the date of discovery. (G. S., Sec. 240; M. A. S., Sec. 3132.)

Such surface boundaries shall be marked by six substantial posts hewn or marked on the side or sides which are in toward the claim, and sunk in the ground, to wit: One at each corner and one at the center of each side-line. (G. S., Sec. 240; M. A.

Such surface houndaries shall be marked by six substantial poxts hewn or marked on the side or sides which are in toward the calain, and sank in the ground, to wit: One at each corner as, see, 2023.

Any open cut, cross cut or tunnet which shall cut a lode at the depth of ten feet below the surface shall hold such lode the same sif a discovery-shaft there sunk thereon, or an adit of at least ten feet in along the fole shall be equivalent to a discovery-shaft.

The discoverer shall have sixty days from the time of uncovering or disclosing a lode to slak a discovery-shaft thereon. The discovery-shaft must be sunk upon unoccupied public land, that is to say, it must be outside of the lines of any patient or other valid location, and there must be a separate discovery for each contribution of the lines of the property of the location of the lines of any patient or other valid location, and there must be a separate discovery for each other lodes, priority of (file shall determine the rights) all ore of mineral contained within the space of intersection. If at any time the locator of any mining claim heretofore or hereafter located, or discovery-shaft with the space of intersection. If at any time the locator of any mining claim heretofore or hereafter located, or discovery-shaft with the space of intersection. If all on overlapping claim which has been abandomed, he may file an additional crifficate, provided such re-location does not interfer with existing rights of others at the time of such re-location. If a superior discovery is a such as a

from may render the purchasers of such ore liable for the value thereof by serving upon said purchasers a notice to that effect, provided that within five days after serving such notice he com-nence an action to enjoin the party unlawfully in possession from

from may render the purchasers of such ore liable for the value thereof by serving upon said purchasers a notice to that effect, provided that within five days after serving such notice he commended that within five days after serving such notice he commended that within five days after serving such notice he commended that the provided such control of the part of

# CONNECTICUT

Compiled by EPAPHRODITUS PECK, Attorney at Law, Bristol, Conn.

# CORPORATIONS.

Any three persons, by written agreement, stating the name, purpose, location, capital stock and the names and shares of each stockholder, may form a joint-stock corporation for any lawfor may low form a joint-stock corporation for any lawform a joint-stock corporation for any lawform a joint-stock corporation for any lawform and the interest of the present state of the present state of the part state. Such business shall not be trust, insurance, buying and selling real estate, banking or trading in bonds, notes or other evidences of indebtedness, or trafficking in letters patent or patent rights. The name must begin with "The" and end with "Company" or "Corporation." The shares must be of the par value of Sion, Sao or Sc. news paper published in the country of location, and acopy thereof, with a certificate of its publication, the names and residences of the subscribers, the stock taken by each, the amount actually paid in in cash, and the amount in property, with schedules thereof, must be made, signed and sworm to by a majority of the directors and recorded in the offices of the secretary of state and No business can be done until the entire stock is subscribed, and at least twenty per cent, paid in in cash.

Annual reports showing stock paid in, value of real estate, value of personal estate, excluding patents, debts, credits, name, residence, and a number of shares of each stockholder, must be filed with the tow clerk and secretary of state. (Rev. M. 1885; 1944-196) into the general assembly for a claster for a cor-

§§ 1944-1948.)
No application to the general assembly for a charter for a c No application to the general assembly for a charter for a cor-poration to perform its principal business outside the state shall be heard until the applicants have paid to the treasurer of the state \$100; and before beginning business they shall pay such farther sum, not less than \$500 nor more than \$5,000, as the state board of equalization shall determine. This is in lieu of all fran-chise tax but not of tax on property or on the shares of stock-holders within this state, (Rev. 81, 188, §§ 102-2190

#### LIENS.

Any person furnishing materials or rendering services in the construction or repair of any building to a value exceeding \$25 may, by lodging with the town clerk a sworn certificate, in form prescribed by the statute, within sixty days from ceasing to so render services or furnish material, obtain a len on the building and the land on which it stands, which will take precedence of any incumbrance arising after the commencement of such services.

any membrance arising after the commencement of such services or furnishing of material.

Sub-contractors can take advantage of this statute only by notifying the owner in writing of their intention to claim a lien within sixty days from the commencement of their claim. This notice, with return of service, must be recorded in the town clerk's office, (Nev. St. 1888, §§ 3018-3021.) Sub-contractors' liens are subject to all rights of the owner for payments made in good faith, before receipt of notice.

receipt of notice.

Chattel mortgages are invalid without actual delivery of possession to and retention by the mortgage; but mortgages of "any manufacturing or mechanical establishment together with the machinery, engines or implements situated or used therein," or such personal property, without the real estate, or of several other classes of chattels expressly enumerated, may be will without delivery of possession if executed and recorded like deeds of real estate. They, St. 1888, \$3016. The property of the control of the

### MINING,

MINING.

There is almost an entire absence of either legislation or judicial decision in regard to mining and quarrying in Connecticut. Non-resident aliens who texequt citizeos of France are incapable of holding real estate tor other purposes, may acquire and hold real estate for the purpose of quarrying, mining, dressing or smelting ores, or "converting the products of such quarries and mines into articles of trade or commerce:" but shall forfeit their title [f such land ceases for ten consecutive years to be used for such purposes. (Hev. St. 1888, \$16.)

WATHERICATES. Any owner or intending owner (by petition or the superior court and appointment of an appraising committee, to flow the land of others by a dam on his own land or the superior court nuter to his mill, or discharge ditches trom the same over the land of others or to deepen existing ditches. Rights of existing mills are fully protected from injury by such proceedings.

The damage to be paid is that found by the appraising com-

The damage to be paid is that found by the appraising committee, plus fifty per cent. (Rev. St. 1888, §§ 1216-1217.)

## DELAWARE

### CORPORATIONS.

How Formed,—Corporations are chartered by the legislature of the state by the passage of a law creating such corporation. No corporation can be chartered except by the concurrence of two-thirds of each branch of the legislature.

DURATION.—Corporations chartered by the legislature cannot represent the passed by the legislature.

REYON ATTON.—By the legislature of the state the legislature.

REYON ATTON.—By the concurrence of the state the legislature.

TOWER.—Corporations have the usual power given to all corporations, such as suing and being such, having a common seat, electing officers, making by-laws, determining the time and place of their meetings, and such of their owers as are necessary to the carrying out of the objects of the corporation.

SALE OF.—The framelies of a corporation may be taken and soil on execution for a money judgment rendered against the corporation, the same as the property of the corporation may be levied on and soid.

LIENS.

Whover furnishes materials to an amount in excess of \$25 in in value oo any house, building, structure or vessel, under a contract with the owner or his contractor, has a fien which attaches to the property for which it was furnished, and also to the land oo which it stands and sufficient of the land surrounding for the real contractor in the land surrounding for the surrounding of surrounding of the surrounding of the surrounding of the surround

# FLORIDA

Compiled by Horatio Davis, Afforney at Law, Gainesville, Fla.

#### CORPORATIONS.

The constitution of the state provides:

1. That the state cannot pledge or loan its credit to, or become a joint owner or stockholder in, any company, corporation or association, and that counties, eities, townships and incorporated districts shall not become stockholders in, obtain or appropriate money for, or loan their credit to, any corporation, association or institution.

institution.

2. That neither private property nor the right of way shall be appropriated to the use of any corporation until full compensation therefor shall be first made to the owner, or first secured to him by deposit of money, which compensation, irrespective of any benefit from any improvement proposed by such corporation.

3. That the property of corporations, except that of the corporation which shall construct a ship or barge canal across the peninsula of Florida, shall be subject to taxation unless such property be held and used exclusively for religious, scientific, numicipal, educational, literary or cluftitable purposes, incorporations are incorporations, such discussions and other useful companies or associations as may be deemed necessary.

other used

#### GENERAL CORPORATION LAW

orange such educational, agricultural, incelanical, mining and other useful companies or associations as may be deemed necessary.

GENERAL CORPORATION LAW.

NUMBER OF INFORPORATORS.—Any three or more persons may associate themselves and become incorporated for the transaction of any lawful business.

REQUISTRES or PhoroSED CHARTER.—It must be subscribed by three or more persons, and acknowledged by at least three of the subscribers before some officer authorized to take acknowledgent of deeds. It must set forth name of corporation and acted, the amount of capital stock authorized, and the number and par value of the shares into which it is divided, and thermal par value of the shares into which it is divided, and thermal par value of the shares into which it is divided, and the rems and conditions upon which it is to be paid in, the term for which it is to exist, by what officers who are to conduct will be elected, and the names of the officers who are to conduct the business of the company is to be conducted, and the times at which they will be elected, and the names of the officers who are to conduct the business of an analysis of the company is to be conducted, and the times at which they will be elected, and the names and residences of the subscribers.

Notice of Intervitors To Apptly For Lattrias PAYEXT.—The proposed charter, with notice of intention to apply to the governor for letters patent thereon, shall be published once a work for four successive weeks in some newspaper published once a work for four successive weeks in some newspaper published in notice which has signed by at least three of the subscribers. Proposed charter shall be on file in the office of the secretary of state during the four weeks of publication.

Issue of Lattrias PAYEXT.—The proposed charter shall be on file in the office of the secretary of state during the four weeks of publication.

Issue of Lattrias PAYEXT.—The proposed charter in the office of the presented to the governor, and if in proper form and for an object authoriz

QUÖRUM,—A majority of the stock shall constitute a quorum, At stockholders' meetings, each stockholder shall be entitled to one vote on each share of stock held by him, but no stockholder whose liability for umpild assessments is past due shall be allowed

to vote.

Orporations may increase or reduce their capital stock and amend their clarter by complying with the directions set out in the general corporation laws.

Dissolution. The circuit court, on petition of a majority in interest of the stockholders, may decree a dissolution of a corporation.

Liens prior in dignity to all others may exist in favor of the

LIENS.

Liens prior in dignity to the following persons:

FOR LAIMOR ON BULLDINGS AND STRUCTURES.—In favor of feel control of the following persons:

FOR LAIMOR ON BULLDINGS AND STRUCTURES.—In favor of substance of the substance of the present who shall perform by the substance of the same person who shall perform by the substance of the same person between the property of any building or other work or structure, or of additions to not of any building of the work or structure and the land upon which it stands.

FOR LAIMOR ON KALBOONS, TELEGRAPHS, ETC, —In favor of any person performing by himself or others any labor upon any fallowed, canal, telegraph or telegraphor fellow, wharf, mill, distillery or other manufactory, any and all framehases, machinery and equipments connected therewith or thereon, and on the kind upon which they stand.

FOR LAIMOR ON FURDAMENTAL FOR THE MANUFACTURE AND THE ADDITIONAL OF THE ADDITION

furnished, the lien shall be only upon meanined meres of social person. The statute prescribes how the liens shall be acquired: First, as against the owner or person deriving through his death, or against purchaser, or creditors with notice. Second, as against purchaser, and creditors of such owner without notice. BRINGING SUIT TO ENFORGE LIENS. Where the law requires lien to be recorded, sur must be brought within twelve months from the time of such record; where it is not required to be recorded, suit must be brought within twelve months from the performance of the work or the furnishing of the materials.

## MINING.

An act of the legislature, approved June 9, 1801, provides for a board of phosphate commissioners to control and manage the phosphate interests of the state in the beds of her navigable waters, and anthorizes said board to enter into contracts with persons desiring to mine phosphate in such waters.

This is the only statute of the state concerning mines and min-

# GEORGIA

### CORPORATIONS.

PA WHOM CREATED. The power to create corporations rests in the general assembly and the courts.

Everytex Corporatyrons. Foreign corporations are recognized in our courts only by comity. They are allowed to own kinds in the state, but when the amount reaches as much as five thousand acres they shall be incorporated under the laws of corpia, and on their failing to do so the state of Georgia will not concurrent to the STREET OFFICE OF COLDINARY APPRING COURT OF THE COLDINARY AND ADDITIONAL STREET OFFICE OF COLDINARY APPRING COURT OF THE COLDINARY AND ADDITIONAL STREET OF COLDINARY OF THE COLDINARY AND ADDITIONAL STREET OF COLDINARY OF THE COLDIN

the court shall pass upon said application. 2. If the application is legitimately within the purview of the code, upon hearing the Judge shall pass an order declaring said application granted. A certified copy of this petition and order, under the seal of the certified copy of this petition and order, under the seal of the state. 3. The incorporators must commence to exercise the power granted by the act of incorporation and pay in ten per cent of the capital stock within two years, to give said charter any force and effect; and in case of failure to do so the stockholders shall be bound in their private capacity to any creditor of said incorporations for amount of stock subscribed for by them. 4. Corporations that for the continuous stocks of their organization, but shall make no contract or purpose of their organization, but shall make no contract or purpose of their organization, but shall make no contract or purpose of their organization, but shall make no contract or purpose of their organization, but shall make no contract or purpose of their organization. If the charter is shent as to its continuance, such charter shall expire at the cand of thirty the such as in continuance, such charter shall expire at the cand of thirty has the said of the continuance with the laws of this state and with the laws of the United States; receive donations, to purchase and to hold such property as is necessary for the purpose of their organization.

Judges of the superior courts, in their discretion, may hold to corporations.

SETAMASHORDOROMENTONS, MININGORADONSTONE COM-

special terms of their courts for the purpose of granting concreases to corporations.

SULT MAINST CORPORATIONS, MINING OR JOINT-STOCK COMPANIES.—Any corporation, mining or joint-stock company may be used on contracts in that remote the performed, if it has an to be enforced was made and was to be performed, if it has an interest of the contract with the contract of the contract

The following liens are established in this state: Liens in favor of the state, counties and municipal corporations for taxes; evolutions by independ and decree; laborers, handlords, mortagges, merchants, factors and others furnishing necessaries, as hereinafter privately mechanics, on real and personal property; contractors, material manifests, and manufacturers of machinery, ectain creditors against steambasts and other water craft, projectors of sawmills and planing-mills, and other shafter establishments; inflicepers, boarding-flows Repers, erricers, livery, and attorneys at law.

and atorneys at aw.

GENERAL LIEN OF LABORERS. Laborers shall have a general
lien upon the property of their employers hable to key and sule
liens, except hens for taxes, the special liens of handlords upon
yearly crops, and such other hens as are declared by law to be
superior to them. They shall have a special hen on the products
of their labor, superar to all other liens, except liens for taxes
and special liens of kindlords upon yearly grops.

and the second district of the second distric

have had actual notice of before work was done of material furhished.

LENS OF PAWNESS, ETC.—Pawnees, bailees, factors and acceptors shall have liens inferior to the hens for taxes, liens of
which such persons had actual notice before becoming creditors,
special liens for rent, liens of laborers, liens of record, beins of
independent of the particular of the property of the post formers.

Depositories shall have liens or elaborers shall have liens occuging the same position as mechanics and attorneys at law. Attorneys at law shall have a lien on all papers and money of their
elients in their possession for services rendered to them, and may
apply such money to the satisfaction of such claims.

ENFORCEMENT OF LENS ON [FaRTY.—Liens on real property,
other than mortgages, shall be forcelosed, first, by a compliance
with his contract by the person claiming the heir, sessing, or of the
work, or within three months after material or machinery is furmished, in the office of the clerk of the superior court in the county
in which such property is situated; and third, the commencement
of an action for recovery within twelve months from the time the
same becomes due. The claims it: if the claim of the he disjuiced in
the process or decree, an issue shall be ordered and tried as in
other causes.

ENFORCEMENT OF LIENS ON PERSONALTY.—There must be a demand on owner, agent or lessee, a refusal to pay on such demand, and refusal must be averened, it must be prosecuted within one year after the debt becomes due, supported by an adaptit before a judge of the superior court, or the ordinary of the county in which the personal property may be, showing all the

facts necessary to constitute a lien under the code. If the defend-ant contests the amount of the claim, he shall file his affidavit of the fact, setting forth such denial, which affidavit shall form an issue to be returned to the court and tried as other causes.

#### MIXING.

RIGHTS OF WAY FOR PERSONS ENGAGED IN MINING.—Any person or corporation engaged in mining, needing for the success full prosecution of such business a right of way for a railroad, tempiske or common road across the lands of others, or where it is necessary to divert any water-course from its usual clannel, it shall be lawful to organize a board of arbitrators, who shall determine as to the necessity, who are damaged, and how much, it shall be the duty of the arbitrators to summon before them all the parties interested and such witnesses as are necessary, and return their award to the superior court on the first day of the term held thereafter; and at such time all of the parties affected thereby shall have the right of appeal to said superior court.

Phylyticles Synthesis and a superior court.

thereafter; and at such time all of the parties affected thereby shall have the right of appeal to said superior continued.

PHOYILEGES INCIDENTAL TO MINING,—The owner of any mine shall have the right to enter upon any land intervening between the mine and the water power upon which the same is observed the same of the continued of the property of the same of the control said to our there exists a such as a superior of the land so there exists a such as a superior provided, he shall first have be necessary to control said power; provided, he shall first have be necessary to control said power; provided, he shall first have be necessary to control said power; provided, he shall first have been expected by the shall the shall the shall the hereinafter provided. He shall give to the owner of the land at least five days, notice of his intention to make application, which application shall describe the land to be entered on, the privileges researed thereon, and the hance of the owner; and the owner of essired thereon, and the hance of the owner; and the owner of the land another freebolder, and the ordinary of the county shall appoint a third freebolder. The said three freebolders shall survey the premises and make an award of the damages, which award shall be returned to the ordinary of the county and filed in his office; and such award, unless appealed from as hereafter provided, shall be final. But no right of entry shall accrue until the damages assessed are first paid. The fees of the ordinary and of the freebolders for said services shall be \$2 each, which shall be paid by the applicant.

Drailing privileges are obtained under and according to the

Draining privileges are obtained under and according to the provisions and requirements specified above, all of which are hereby extended to the owners of mines desiring to drain their mines and to carry off the water and tailings through or over the lands of others.

# IDAHO

### CORPORATIONS.

How Formed the Correct a corporation a paper is drawn up and signed, called articles of incorporation. This paper must contain the name of the corporation, the purpose for which it is formed, the place where its principal business is transacted, the term for which it is to exist (not exceeding fifty years), the number of directors and the names and residences of those appointed for the first year, the anomut of its capital stock and number of shares in which it is divided, the amount of capital stock attainly more proposed to the size of the control of th

BY-LAWS.—Every corporation must adopt a code of by-laws within one month after filing its articles of incorporation. These by-laws must not be inconsistent with the law, and must be passed by a majority of all the stockhoiders after a meeting called for that purpose, of which due notice has been given.

OFFICERS.—The directors of a corporation must be elected every year. If the by-laws contain no provision for the time of election, then the election must be on the first Tuesday in June. The board of directors cannot be more than eleven nor less than five in number, and a majority of them must be citizens and residents of the state. dents of the state.

Powers.—Corporations may make their own by-laws, elect their own officers, own property, sue and be sued, and generally do any business which private individuals might lawfully do.

DISSOLTION OF COrporations are dissolved by the district COURT of the county upon voluntary application, and in no other way. This application must be in writing; must state that at a meeting of the stockholders a dissolution was agreed to by two-thirds of all the stockholders by vote, and that all claims and e-lemands against the corporation have been satisfied and dis-charged. This application must be signed by a majority of the board of directors and must be verified. If the judge is satisfied that the application is in form, he orders it fleel and directs the

clerk to give thirty days' notice by publication in some newspaper. Any person may appear and object, and if any objections are made the court hears and determines the matter, and if the state-ments of the application are found to be true he enters a judgment.

ments of the application are found to be true he enters a judgment dissolving the corporations may not hear debts beyond the amount of the subscribed stack.

DEBTS.—Corporations may not hear debts beyond the amount of the subscribed stack.

One of the subscribed stack of the stack applicable to like domestic corporations. like domestic corporations.

#### LIENS

Liens are given for material furnished in the construction or repair of any building, mining claim, brudge, fence, machinery, railroad, wagon-road or aqueduct to create hydraulic power, by virtue of contract with the owner or his contractor. The lien attaches to the improvement and to enough adjacent land for its convenient use, and is superior to any other incumbrance created after the first of the material is furnished. To scenar the lien the contractor must within sixty days from the completion of the conclaim of lien in the county recovities with the contractor days in the contractor busy within the district court, begun within namely days from the filing of the notice. filing of the notice.

### MINING.

WINTH OF CLAIDS.—Mining claims hereafter located upon vehics or lodes of quartz or other rock in place, or any metals or vehics of the middle of the vehic or lode. The locator of any lode side of the middle of the vehic or lode. The locator of any lode or mining claim must at the time of making the location place a substantial stake, post or monument, not less than four inches in diameter, at each end of the ground calimed, as near as practicable to the middle, and also a similar mark at each corner of the location, such marks to be at least four feet high and must be marked distinctly with the name and location of the claim.

In the middle, and also a similar mark at each corner of the location, such marks to be at least four feet high and must be marked distinctly with the name and location of the claim.

I cached to one of said center end posts so that it may be cashy read, or it must be posted in like manner at the point of discovery. The notice must contain the date of location, names of locators, name of claim, ledge or lode and quantity in feet claimed along the ledge or lode, the width claimed from the middle of the vehi, and mist also give such description of the locality by reference reasonably certain from the notice steet.

WIEEN TO BE RECORDED.—Every claim must be recorded within fifteen days from the time of posting the notice, in the district in which the claim is located, or at the nearest office. For the convenience of prospectors and locators the country recorders of the several countres must appoint a deputy at any place where they deem it necessary, and in all places more than mining locators interested petition for such appoint and capity at any place where they deem it necessary, and in all places more than mining locators interested petition for such appoint a deputy at any place where they deem it necessary, and in all places more than mining locators interested petition for such appoint a deputy at any place where they deem it necessary, and in all places more than mining locators inter

recorder ma book to be kept at his office and known as the book of mining claims. First. Detti is a Deputy recorders provided for by this law are not authorized to perform any other than the special duties herein specified. They must keep an official scal, and the records in their custody are public records, and the scal of a deputy recorder must not be attached to any paper except for the purpose of authenticating certificates attached to transcripts in his custody.

PLACER CLAIMS, LOCATION OF. Placer claims may be located under like circumstances and conditions and upon similar proceeding as far as applicable to those provided in the case of lode

MARKING THE GROUND AND NOTICE.—The locator of any placer mining claim must at the time of location place a substantial stake or monument at each corner of the location, and post on each a notice of location as required in case of a lode claim.

Recording.—The same affidavit must be attached to the notice of location of every placer claim, and notice and affidavit must be filed for record the same as for lode claims.

Greath Market and the same as for lode claims.

Restro of every placer claim, and notice and affidavit must be filled for record the same as for lode claims.

Restro of WAY.—The owner, locator or occupant of a mining claim may have and acquire a right of way for ingress and egress, when necessary in working such mining claim over and across when necessary in working such mining claim over and across when necessary in working such mining claim over and across when necessary in working such mining claim over and across claim; is so situated that for the convenience and enjoyment of claim; is so situated that for the envenience and enjoyment of each of the same a road, railroad, or a different or shaft may be required for the better workings therefor, or a differ of shaft may be required for the better workings thereof, which road, railroad, trainway, ditch, canal, time or tunnet may require the use or occupancy of lands owned, occupied or possessed by others, the mentioned is entitled to a right of way and to enter into possession for such uses and privileges. For such purposes a road, railroad, ramway, ditch, canal, hume or tunnel, in, upon, through and across such other lands or mining claims may be constructed upon compliance with the following provisions: When the owner, claimant or occupant of any mine or mining claim desires the right of way above mentioned and claim or lack may always mentioned and the came to be acquired by a possible of the claim of the country in which such right of way always mentioned and claim of the country in which she indige of the district count within and for the country in which she indige of the district count within and for the country in which she indige of the district count within and for the country in which she indige of the district count within and for the country in which she right of way should mention of the mine right of way and the claim of believed district of the court to the owners maned in the petition to appear before the judge on a day therein named and answ

ABOUTE (1931 papers.)

HEARING,—On the return day of the citation the judge must proceed to hear the allegations and proofs of the respective parties, and if on such hearing he is satisfied that the claims of the petitioners can only be conveniently worked by means of the petitioners parayed for, he must award to the petitioner such right of way, and must appoint three disinterested commissioners residents of the county to assess the damages resulting to the lands affected by such order

COMMISSIONERS.—The commissioners must, without reasonable delay, assess the damages and report the amount of the same to the judge. For good cause this report may be set aside and three other commissioners appointed.

three other commissioners appointed.

APIEMA—Appeals from the assessment of damages made by the commissioners may be made and prosecuted in the proper district court by any party interested, at any time within ten days after filing the report of the commissioners. Notice of such appeal must be served upon the appelled in the same manner as summonses are served in civil actions. The appellant must flie with, the clerk of the court to which the appeal is taken a bond, with sureties, in the amount of the assessment appealed from, in favor of the appeller canditioned that the appellant will pay any costs that may be awarded to the appeller and abide by any test appeals are appealed from the appeals of the

amount be may recover in the action.

COSTS—If the appellant recover judgment against the necessity of the casement or \$50 more damages than the commissioners awarded or the appellee has othered to allow, the appellee must pay the costs of the appeal, otherwise the appellant must pay such costs. The costs and expenses of proceedings under the provisions of this law, except as herein or otherwise provided, must be paid by the party making the application, unless the applicant before commencement of such proceedings has tendered by the party making the application, unless the applicant to our more than the amount of damages recovered. In such case the costs and expenses must all be paid by the parties whose lands were affected by such right of way and who resisted the claim of the applicants.

MENE PLATEMERSHIP PROPERTY.—The mining ground owned

resisted the claim of the applicants.

MINE PARTNERSHIP PROTERTY.—The mining ground owned and worked by partners, whether purchased with partnership inds or not, is partnership property.

PARTNERSHIP NOT DISSOLATED BY SALE OF INTEREST.

PARTNERSHIP, NOT DISSOLATED BY SALE OF INTEREST.

CONTRACTS, WHEN BINDING.—No member of a partnership or agent or manager can bind it by contract except by express authority derived from the members thereof.

WHO MAY OWN.—Any person, whether citizen or alien, may own any mining property, except that no Chinese or persons of Mengodian descent not born in the United States can acquire any title to land or real estate

# WATER-RIGHTS.

The right to the use of running water may be acquired by appropriation, if it be for any useful purpose. As between the appropriations the one first in time has the right. A person who desires to appropriate water must be received to the constant of the received to the

# ILLINOIS

Compiled by CLARK VARNUM, Attorney at Law, Suite 414 Chamber of Commerce Building, Chicago, Ill.

#### CORPORATIONS.

CORPORATIONS.

FORMATION OF, Corporations for pecuniary profit for any partial purpose eveep banking, hourance, real estate brokerage, the operation of railroads and the business of loaning money are formed under the general statute of Illinois regarding corporations for pecuniary profit. To obtain a charter from the state, the persons who propose to form the corporation, not less than three nor more than seven, must make, sign and acknowledge a statement setting forth the name of the proposed corporation, the object of more, the par value of each share, the location of the principal office, and the duration of the corporation, which must not exceed ninety-nine years. This statement is then ifled in the office of the secretary of state, who thereupon issues to such persons a fleense as commissioners to open books of subscription to the capital stock of the cerporation. The capital stock must be aff fully subscribed, and statement is then ifled in the office of the secretary of state, who thereupon issues to such persons a fleense as commissioners to open books of subscribed in the office of the secretary of state, who thereupon shows the state of the secretary of state, who thereupon issues to such persons a fleense as commissioners to open books of subscribed in the office of the secretary of state, who thereupon issues to such must be affected as which of printed notice, stating the time, person of the capital stock of the capital states of the principal capital states who seed to the interest of the principal capital states where the interest of the interest of the principal capital states states and the privilege of distributing his votes around among an any candidates, on the same principal, as he may desire. An election of directors which disregards this right is invalid. The directors may be divided into three classes, of which the term of office of the subscribed by the state of the control of the provincipal states the very for the full term of three years as many directors as are in that particular cl

FAILURE TO ELECT OFFICERS.—A failure to elect officers or to transact corporate business does not have the effect to dissolve the corporation, but an election may be held and new officers elected at any time after proper notice.

DISSOLCTION OF CORPORATION.—H a corporation does or retrains from doing any act which adjects it to a forfeiture of its charter or alleger of the corporation of the payment of noney to be retrained by the officer barding such execution, or shall dissolve or cease doing business leaving debts unpaid, suit may be brought in equity against the stockholder may be required to pay our insumption of the payment of the debts which exist and are unpaid. The court also has full power upon good cause shown to dissolve or close up the business of a corporation or appoint a receiver to do so and to close up its affairs.

FORFIGE CORPORATIONS.—Foreign corporations are subject to all the liabilities, restrictions and others that are imposed upon and have no other or greater powers.

EMINEXT DOMAIN.

### EMINENT DOMAIN.

Private property may be taken for public use, for public roads, for railroads, roads to mines and mills, but not without compen-

for railroads, roads to mines and mills, but not without compensation first made.

The party authorized to take or damage the property required for such pulpose may apply to the indge of the circuit or county court by filing a petition selting forth the authority and purpose for which the property is to be taken, a description of their property is to be taken, a description of their property is to be taken, a description of their property is to be taken, a description of their property is to be taken, a description of their property and the property is to be taken, a description of their property and the property is to be taken, a description of their property and the property and their property and the property and their property and be included in one petition if they are in the same county, but the compensation must be assessed separately by lary. New pattles may be brought beed the election data as sherilf is jury of twelves as selected by lot. This jury is sworn, examines the property, hears the proof and makes a written report under the direction of the indige, showing how much damage each person is entitled to ment cannot be deducted from the compety because of the improvement cannot be deducted from the couple that the petitioner may ment of the assertanced compensation.

Appeals lie from the decision of the court to the suprement of the assertanced compensation.

Appeals lie from the decision of the court to the suprement of the property with the court of the county there is a decided, if he gives bond conditioned to pay the court he entity thereto.

ALENS.

### LIENS

Persons furnishing materials under contract with the owner of any lot or piece of land for the erection or repair of any building thereon, or appurtenance thereon, are entitled to a lien upon the building and lot or land for the erection or repair of any building thereon, or appurtenance thereon, are entitled to a lien upon the building and lot or land for the amount due. Sub-contractors amove the contractor serves to a within forty days after the completion of the sub-contract, or within a like time after payment should have been made to him. Whenever the original contractor desires to the whole and the contractor of the sub-contract, or within a like time after payment should have been made to him. Whenever the original contractor desires to the womer a statement under eath of the numbers and names of sub-contractors or workmen, and the amounts date or to become due to each, and ware a statement of the manders and the sub-contractors or the sub-contractor of the sub-contractors and workmen, the payment is fliegal, and does not deprive sub-contractors of workmen the payment is fliegal, and does not deprive sub-contractors and workmen, the payment is fliegal, and does not deprive sub-contractors of the sub-contractors and workmen, the payment is fliegal, and does not deprive sub-contractors of the sub-contractor of the region of the premises, and persons interested in the realty may be brought in as parties to pay more than the amount contract of the parties. All persons interested in the realty may be brought in as parties to pay more than the amount contract of the parties. All persons interested in the realty may be brought in as parties to pay more than the amount cont

Mill-Sites.—Any person owing land on one or both sides of a water-course, who desires to build or repair a null or erect or im-prove a dam, may, if the compensation for the land taken cannto be agreed upon, cause, the damage to be appraised by filing a peti-

tion in the county or circuit court and giving notice to all persons interested, both personally and by sixty days' publication in some newspaper. After the requisite notice has been given, a jury is selected to ascertain and report inst compensation and decide whether the health of the neighborhood will be injuriously affected. If not, and the allowed to make the improvement by paying damages assessed by the jury. Applicant has three months after jury report in which to decide whether he will pay amount fixed by the jury. If he does not accept their verdict, he proceedings are at a read. If he does accept he must pay the damages with all costs and a reasonable attorney's fee, and must make the improvement in from one to three years, according to fix nature. If the hipprovement after exection, he destroyed.

INJULY TO MILLDAM, RACE, ETC.—TO malticiously injure, remove or destroy any ganal, levee, dam, reservoir or french, or the gear or machinery of any mill, or to draw off, or procure to be drawn off, the water from any millpond, reservoir, canal or french, whereby any water-power is injured or its use inquired, is an offense punishable by fine of \$50000 milly injured, or its use inquired of mills, in the streets, under such restrictions as they may deem proper.

# MINING.

DRAINS, ROADS AND RAILROADS.—Whenever any mine cannot be worked without a road or railroad thereto or a ditch or drain to convey water to or from it, the owner or operator at the nine may appropriate land sufficient to construct such railroad, road or ditch by proceeding under the law relative to endment

drain to convey water to or from it, the owner or operator of the mine may appropriate land sufficient to construct such railroad, round or direch by proceeding under the law relative to eminent during the properties of the process of the control of the control

two distinct available means of lagress and egress. Passageways to escapement-shafts must be at least five feet wide and five feet lagh. The escapement-shafts are constructed under the final control of the construction of the

ing to obey the law regarding hoisting and lowering persons is a misdementor, which is punishable by line in the discretion of the court.

Bork-Holks.—The operator of a mine must provide hore-holes twenty feet in advance of and on both sides of a working place when driving boxard an abundance in the or part of a mine strength of the provided with a property of the provided with the provided with the provided with strength of the provided with travel-ways by which cars are drawn most lake proper means of signalize and locations of shafts must be supplied with travel-ways by which has been provided with travel-ways by which carses. All somps must be securely planked over.

INSPECTION DISTRICTS.—The state is divided into five inspection districts with an inspector in each district appointed by the state with the most improved modern instruction of the provided with strength of the provided with s

of the mine until the same has been made safe and the law compiled with.

INJURIES.—For any injury occasioned by violation of the law INJURIES.—For any injury occasioned by violation of the law about coal mining a right of action accuse to the party injured for all damages sustained; and in case of loss of life through such violation the widow, heirs, adopted children or any other person dependent on the one killed may recover not exceeding

INJURY TO MACHINERY.—Any injury to the machinery, obstruction of airways, carrying lights into places worked by the hight of safety-lamps, disturbing the machinery of the holsting-engines, or doing any other act whereby the lives and health of the persons working in the mine or the security of the mine or such fine as the court may direct a misdemeanor punishable by Shelt and the court may direct.

Prors.—The operator of every mine must keep a supply of props and cap-pieces on hand and deliver same with the miner's empty ear.

FIRETROY BULDINGS. All engines, boller-houses, holsting-detries, and other machinery must be provided a steam pump and a sufficient significant provided a steam pump and a sufficient significant sig

proof materials, and there must be provided at steam pump and a subtleient supply of water and hose to guard against fire. It this subtleient supply of water and hose to guard against fire. It this subtleient supply of water and hose to guard against fire. It this the upper of the control o

# WAGES

Weeker Payment Or.—Every manufacturing, mining, quarraine or other corporation must pay its employes weekly all wages earned by such employes up to within siv days of steep payment, and if such corporation violates this provision it shall be liable to a penalty of not less than 50 nor more than 550 for each violation, to be recovered in a civil suit commenced within thry days after the violation occurs.

FAYING IN GOODS.—It is unlawful for any mining corporation be engaged in or interested in, directly or indirectly, the keep-the of the composition of the keep-the of the composition of the composition of the keep-the of the composition of th

# INDIANA

## CORPORATIONS.

How Incorporates. Whenever three or more persons may desire to form a company to carry on any kind of manufacturing, mining, mechanical or chemical business, they shall make, sign and acknowledge before some officer capable of taking acknowledge before some officer capable of taking acknowledgement of deeds a certificate in writing, which shall state the corporate name, the object of its formation, the amount of capital stock, the term of its existence (not, however, to exceed fifty years), the number of directors and their names who shall mange the affairs of such company for the first year, the name of the town and county in which its operations are to be carried on, and field the same in the office of the recorder of said county, which thereof in the office of the secretary of state.

WHEN INCOMPORATED.—When the certificate shall have been filed as aforesaid, the signers shall be a body politic and corporate, and by their corporate name may take, hold and convey real estate necessary to carry on the operations named in such certificate.

tificate.
DIRECTORS.—The business shall be managed by not less than three nor more than eleven directors, who shall be stockholders therein and residents of the United States. A majority of the directors shall be a quorum. They shall be elected by the stockholders annually, and the directors thus chosen shall elect the president thereof. They shall also annually elect a secretary and a treasurer, who shall respectively give bond, and be sworn to the faithful discharge of the duties assigned to each of them. Voting by proxy is allowed, each share of stock entitling the owner to

one vote.

CAPITAL STOCK,—The amount of capital stock shall be fixed by the company, but may be increased by vote of the stockholders at any annual meeting. Such stock is transferable in such manner as the by-laws may prescribe, but the funds of such a corporation cannot be used to purchase stock in another corporation, or only upon the written consent of all the stockholders of the company to purchase said stock, and also the written consent of all the stockholders of the corporation in which stock is sought to be burchased.

purchased.

PAYMENT FOR STOCK.—The capital stock shall be paid into the treasury within eighteen months from the incorporation of the same, in such installments as the by-laws direct.

CERTIFICATE OF PAYMENT TO BE FILED.—The president and directors, within thirty days after the payment of the last installment of the capital stock, shall make a certificate stating the amount of the capital so fixed and paid in, which they shall sign and within thirty days file in the office of the cierc of the circuit court.

court.

REDUCTION OF CAPITAL—Every such company, at a meeting called for that purpose, may reduce the capital stock of the same, ANNUA REPORT—Every such company shall annually within twenty days from the 1st day of January make a report, which must be published in some newspaper in the county, which shall state the amount of capital, the amount of assessments made and actually paid in, and the amount of existing debies, which report the said president and directors shall sign and verify by their oaths.

oaths.

LABILITY OF OFFICERS.—If said certificate or report or public notice shall be false, or if such report is not made, and any person is misted or deceived thereby and damaged, then all the officers who shall sign the same, knowing it to be false, or fall in giving the report as aforesaid, shall be jointly and severally liable for any damages resulting from such failure on their part.

LIABILITY OF STOCK HOLDERS.—The stockholders of manufacturing and mining corporations shall only be liable for the amount individually tribed by Hun respectively; provided, they shall be individually tribed by Hun respectively; provided, they shall be and employes for services rendered such corporation.

### LIEXS

How Acquined. In all coal mines in this state the miners and other persons employed and working in and about the mines, and the owners of the land, and others interested in the rental or royalty of the coal mined therein, shall have a lien on said mine, and all machinery and fixtures connected therewith, for work and all machinery and fixtures connected therewith, for work and allow performed within two months, and the owner of the land for rayalty on coal taken out from under his land for any length of time not exceeding two months; and such liens shall be parathesed to the control of the control of the land for laborate exceeding two months; and such larve priority as against the state for taxes; and such len shall have priority as against every other in the order in which they accrue, and for laborand royalty on coal. To acquire such lien, such person shall file in the recorder's office in the country where the coal mme is situated, within skxty days from the time the payment became due, a notice of his intention to hold a lien upon such property for the amount of his claim, attaing in such notice the amount of his claim, attaing in such notice the amount of his claim, and the name of the coal works, if known, or any other designating or describing the location of said mine; and the recorder shall record the said notice, when presented, in the book used for recording mechanics' liens, for which the recorder's shall records as an according to the coal works and the recorder shall records. 25 cents

Stills brought to enforce any lien herein ereated shall be brought within one year from the dute of filing sald lien. All wages for working in and about the mine shall be due and payable on the second Saturday of the month after the month in which the work was done, and all payments shall be made in bankable funds of the state of Indiana.

### MINING.

Number of Employes—Outlets Water.—It shall not be lawful for more than ten persons to work in any mine in every

twenty-four hours, after five thousand square yards have been excavated, until the second outlet shall have been made. Said outlet shall be separate from the holstimes-halt by at least one mader test of all complexes engaged in the mine. The traveling rouss to said cuplicyes engaged in the mine. The traveling rouss to said times to all cuplicyes engaged in the mine. The traveling rouss to said the property second to the mine shall be available at all times to all cuplicyes engaged in the mine. The traveling rouss to said of the mine simes most be left standing open.

ATIR-WAYS.—Alr-ways shall be made in every room, at least every seventy-five feet. The doors used in assisting ventilation of the mines must not be left standing open.

TIMBERS.—A sufficient supply of timber shall be kept at the workings from caving in, and props of proper length shall be workings from caving in, and props of proper length shall be LAHES LIGHTER, WHEN.—When two veins of coul are being mined in one shaft, two reflecting lamps shat be kept lighted at all times when said mine is in operation.

SIGNAL BELLS.—There shall be a formality of signals at all constants in this state, with a signal belia at the bottom of each shaft.

SPEAKING TERS.—There shall be provided in all coal mines a metal tube from the bottom of the shaft, satiably adapted to the between persons at the bottom and top of the shaft.

ABANDONED MINE.—Before a mine shall be abandoned, a survey shall be made thereof, the mine properly staked on the survey shall be made thereof, the mine properly staked on the survey shall be made thereof, and said map shall have attached thereto the adidavit of the mining engineer making the map, and mines as the adidavit of the mining engineer making the map, and mines as the singular man has been shall be represented at the office of the county recorder, and said map shall have attached the provisions as to Gas AND WATEE.—When the place is likely Provisions as to Gas AND WATEE.—When the place is likely mine

off the mine boss in charge of the underground workings of said mine.

Provisions as to Gas and Water.—When the place is likely to contain a dangerous accumulation of water or gas, the workings approaching such place shall not exceed eight feet in width, and there shall be constantly kept one bore-hole near the center of the workings, and sufficient flank hore-holes on each side, containing the containing the containing the containing and the center of the workings, and sufficient flank hore-holes on each side, containing the containing and sufficient flank hore-holes on each side, containing the containing and the containing and the containing apparatus and air-ways, and see that, as the miner advance through the exervations, all loose coal, slate and rock overhead are carefully secured against falling therein, and traveling and air-ways. He shall measure the air current at least once a week at the inict and outlet. He shall also, about the first of each month, mail to the inspector acopy of the air measurements, the number of the state of the containing the containing

HESTIDION OF SUPERIOR AND APPROVED TO THE REST IN MINE.

The inspector of mines and his assistant shall be residents of
the state of Indiana for five years immediately preceding their
appointment to office, and shall be practical miners of at least ten
years' experience in actual mining. He shall not have any pecuniary interest in any coal mine within the state, and he and his
assistant shall file with the secretary of state a simile int bond or
bonds for the faithful performance of their duties. He shall make
an annual report to the state geologist, of all matters now required
by law to be reported by the mine inspector, which report shall be
published with the report of the state geologist.

SALATHES—EXPENSES—The inspector of mines shall receive
ramming. Sano per annum shall be made over to the inspector of
mines for the necessary expenses of himself and assistant in the
testing of weights and measures.

PROTUBITED ENILOYMENT OF PERSONS.—No female of any
age or made under the age of fourteen years shall be permitted to
enter any coal mine in this state for the purpose of employment

efficiently any companies, associations, firms and per-sons engaged in mining shall pay to their employes every two weeks the amount the such employes for labor, and such payment shall be in lawful money of the United States.

# INDIAN TERRITORY

(CHEROKEE NATION)

### MIXING

MINERALS THE PROPERTY OF THE NATION.—All minerals existing in their natural state within the limits of the Cherokee Rights To MINE, Erg.—How OPTAINED.—Every bona fide citizen of this nation wishing to mine minerals, or manufacture salt, or to engage in the collection or relining of coal oil or petroleum, or the manufacture of medicinal waters, shall make application in writing to the treasurer of the nation for that

purpose, stating the minerals he wishes to operate in, the number and names of the stockholders of the company, where located, and the metes and bounds of the reservation on which he proposes operating, provided he does not infringe upon the rights of any official provided he does not infringe upon the rights of any official provided he does not infringe upon the rights of any official provided he may be sufficiently as the state of the provided he first.

LICENSE—Before beginning the work he shall obtain from the resurrer a here he for that purpose, and shall, at the same time, execute to the Cherokee Nation a satisfactory bond in the sum of \$2,000, with sufficient security, conditioned upon compliance with the requirements of this act.

REPORTS.—He shall report under auth to the treasurer quarterly the gross amount of uniberals under, said manufactured or middle the state of the same time pay into the treasurer, for the benefit of the school or orphain funds, a sum equal to five per cent, of the value of such minerals at the place of production. He shall also the reservation, and shall then have the right to the same by incorporating it into the original contract.

PENALTIES. Every citizen of the nation who shall make a grant to any person other than a citizen of the same shall be leave and bond.

No lecense shall be granted for alloger period than ten verus:

nnerta sum nor to execut \$2,000 for each oftense, and forfeit his leave and bond.

No fleense shall be granted for a longer period than ten years; but the privilege is extended to the lessee to renew his lease upon the payment of all arrears to the nation.

# L WOL

Compiled by C. M. BROWN, Attorney at Law, What Cheer, Ia.

### CORPORATIONS.

FORMATION OF.—The constitution provides that no corpora-tion shall be formed by special laws, but the general assembly shall provide by general laws for the organization of corpora-sisting the subject to faxation the same as that of individuals; that the state shall not become a stockholder in any corporation, nor shall it assume or pay the debt or liability of any corporation, unless incurred in time of war for the benefit of the state. By years, Or.,—The statute has divided corporations into, first, those for permiary profit; "second, those "not for permiary Ally multiple of pressure more constitutions."

profit."

Any number of persons may associate themselves and become incorporated for the transaction of any lawful business. Among the powers of such body corporate are the following:

1. To have perpetual succession.

2. To succent and be succelled by its corporate name.

3. To have a common seal, which it may after at pleasure.

4. To render the interest of stockholders transferable.

5. To exempt the private property of its members from liability the corporate dead.

ing the same powers in such respects as private individuals may entire.

ing the same powers in such respects as private individuals may enjoy.

7. To establish by-laws, and make all rules and regulation decemed expedient for the management of their affairs in accordance with law.

COMMENCIAG RESIMESS. Previous to commencing any business except that of organization, articles of liceoporation must be adopted, which must be samed and acknowledged by the neorporators, and recorded in the older of business is to be.

The articles must be recorded within the days by the recorder, and he must certify thereon the time when the same was filled in list office, and the book and page where the record will be found.

The articles and certificate of recorder shall then be recorded will be found.

will be found. The articles and certificate of recorder shall then be recorded in the office of the secretary of state. The articles of incorporation must fix the highest amount of indebtedness or liability to which the corporation is at any one time to be subject, which must in no case, except in that of risks of insurance companies, exceed two-thirds of the capital stock. NOTICE PUBLISHED.—A notice must also be published for four weeks in succession in some newspaper as convenient as possible to the principal place of business; such notice must contain.

1. The name of the corporation and its principal place of transacting business.

1. The hame of the corporation one by adding binsiness.
2. The general nature of the business to be transacted.
3. The amount of capital stock authorized, and the times and conditions on which it is to be paid in.
4. The time of the commencement and termination of the corporation.

The time time poralled, and the times at which they will be elected, by what officers or persons the affairs of the corporation are to be conducted, and the times at which they will be elected. The highest amount of indebtedness to which the corporation is all any time to subject itself.

Whether private property is to be exempt from corporate chain.

debts. The corporation may commence business as soon as the articles of incorporation are illed in the office of the recorder of deeds, and the dolings shall be valid if the publication in the newspaper is made and articles recorded in the office of the servetary of state within three months from such filing in the recorder's office. Any of the provisions of the articles of incorporation may be changed at any annual meeting of the stockholders, or special meeting called for that purpose, but are not valid unless recorded

as the original articles are required to be; said changes need only be signed and acknowledged by the officers of the corpora-

only be signed and acknowledged by the omeers of the corpora-tions sont-Truck OF. No corporation can be dissolved prior to the period fixed in the articles, except by unanimous consent, unless a different rule has been adopted in the articles. The same newspaper publication must precede a premature dissolution as required at its creation. A failure to comply substantially with the requisition in relat-tion to organization and publicity renders the individual property of the stockhoiders liable for the corporate debts. DURATION—Corporations shall not exist for more than twenty years, except those for the construction of any work of internal exist for fifty years, but may be renewed from time to time, further of the construction of the construction of a articles of incorporation, or in deceiving the public or individuals in relation to their means or their liabilities, shall subject those guilty thereof to fine and imprisonment, and damages may be recovered by any person who has sustained injury from such frand.

recovered by any person who has sustained injury from such fraind.

A should be complied and may entitle binsel to all the advantages of the start of the case are the complied and the complied substantially with all its requirements, omitting those which from the nature of the case are inapplicable.

No body of men acting as a corporation shall be permitted to set up the want of a legal organization as a defense to an action against them as a corporation; nor shall any person sned on a contract made with such a corporation, or sned for an injury to the property, or a wrong done to its interest, be permitted to set up a want of such legal organization in his defense.

LEGISLATIVE CONTROL.—The articles of incorporation, by laborative or set aside up as want of such legal organization in this defense.

LEGISLATIVE CONTROL.—The articles of incorporation, by laboration of set aside up law, and every translate and the advantaged or set aside up law, and every translate of the subject of the subject to conditions imposed upon the employment thereof, whenever the general assembly shall deem necessary for the public good.

of he shoped to commons whenever the general assembly shall deem necessary for the public good.

The acts of the twenty-first general assembly that "any coporation for pecuniary profit other than for earlying on mercantic or manufacturing business, organized under the laws of any other state or of any territory of the United States, or of any other state or of any territory of the United States, or of any other state or of any territory of the United States, or of any other state or of the United States, or of any other state or of the United States, or of any other state or of the United States, or of only other state or of the United States, and tequiring the with the secretary of state a certified copy of its articles of incorporation, duly attested and authorizing the service of process on any of its officers or agents in this state, and requiring them to submit to the provisions of the law, and prohibiting the removal of causes to the United States court, under penalty of being deprived of the privilege of doing business in this state."

This statute was declared to be unconstitutional in the case of Barron vs. Burnshie, 121 U. S., 186.

There is no statute provided by which a miner mining coal can there is no saddle provided by which a miner mining coal can avail himself of a lien, except for the construction of works, exception of machinery or material furnished, which is covered by the mechanics' lien laws, available for any and all laborers and material-men who perform work upon or furnish material for construction or improvement of property.

### MINING.

MINING.

INSPECTORS.—The state is divided into three mining districts, and there are three mine inspectors, one for each district, appointed by the governor, and holding helr office for two vears; and see that the mining laws are compiled with.

MAYS OF MINES.—The agent or owner of every coal mine shall make, or cause to be made, an accurate map of such mine, and on or before the 1st day of September of each year report all progress in working said mine. When a mine is worked out and abandoned, the owner or agent shall deliver a correct map of such mine, and on the force of the control of the inspector, and no buildings shall be put nearer the escape shaft than one hundred feet, except the house necessary to cover the fam.

VENTILATION.—The owner or agent of every coal mine, whether it be operated by shaft, slope or drift, shall provide and maintain for every such nihe an amount of ventilation of not less than one hundred feet, except the house necessary to cover the fam.

VENTILATION.—The owner or agent of every coal mine, whether it be operated by shaft, slope or drift, shall provide and maintain for every such nihe an amount of ventilation of not less than one hundred feet, except the house necessary to cover the fam.

VENTILATION.—The owner or agent of every coal mine, whether in the operation of the control of the control of the

A failure to comply with the law in regard to the appliances and other provisions of the law makes the same hable to be enjoined, and liable for all damages which may accrue by reason of the failure to comply with the provisions of the law. Any miner, workman or other person who shall knowingly injure or interfers, or the start of the law who shall knowingly injure or interfers, or the law in the provision of the law when the provision with the provision of the person of the law is the provision of the person or the security of the mines and machinery is endangered, shall be deemed guilty of a misdemeator. of a misdemeanor.

of a misdementor.

Proots—The corner, agent or operator of any coal mine shall keep a sufficient simply of timber to be used as props, so that the workmen may at all times properly secure the workings.

PENALTIES.—Any person willfully neglecting or refusing to comply with the provisions of this act, when nothined by the mine inspector to comply with such provisions, shall be deemed guilty of a misdementor, and upon conviction thereot shall be punnished by a fine not exceeding \$500, or imprisonment in the county jail not exceeding six months.

Scales.—The owner or agent of each coal mine within this state at which the miners are paid by weight shall provide at such mine suitable scales of standard make for the weighing of all coal mined.

state at which the inhiers are paid by wight shall provide at such nine suitable scales of standard make for the weighing of all coal mined.

WEIGHMASTER SWORN.—The owner or agent of such mine shall require the person authorized to weigh the coal to be sworn, and the oath posted in a consequence place.

CHECK WEIGHMAN—The consequence place, we all the working in company to the provide a coal to be sworn, and the oath posted in a consequence place.

CHECK WEIGHMAN—The properties place, we all on working in a tall proper times have the present state properties and weights of coal mined and accounts kept of the same.

FRALD IN WEIGHMA:—Fraud in weighing, committed by the company, check-weighman or any person, shall be punished by fine of not less than \$200 CHECKING.—All coal mined under contact for payment by the tool or other quantity shall be weighed before being screened, unless otherwise agreed upon in writing, eightly pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined shall constitute a bushel, and two thousand pounds of coal as mined

indepteduces, pages value in noney. COFRCION.—Whoever compels or in any manner seeks to com-Generox.—Wheever compels or in any manner seeks to com-pel or coerce an employe of any person, firm, company or corpo-ration to purchase goods or supplies from any particular person, firm, company or corporation shall be guilty of a misdemeanor, and punished by five or imprisonment.

# OUARRYING.

There are no statutes upon the subject of quarries.

# KANSAS

Compiled by Fuller & Randolph, Attorneys at Law, Pittsburg, Kan.

### CORPORATIONS

CONSTITUTIONAL PROVISIONS.—Corporations may be created inder general laws. Legislature can confer no corporate powers

under general laws. Legislature can confer no corporate powers by specul active the properties of the properties of the powers buss from corporations secured by individual liability of stock-holders to additional amount equal to stock held by each. This does not apply to railroad corporations, nor to religious nor chari-table ones.

table ones.
Religious corporations, title to all property of same vests in trustees, elected by members.
Term corporation includes all associations and joint-stock companies having powers and privileges not possessed by individuals

Term corporation includes all associations and joint-stock companies having powers and privileges not possessed by individuals nor partnerships.

LEGISLATIVE ENALTMENTS.—Corporations are: First, public; second, private; third, for religion; fourth, for charity or benevice; the property of the property

SCESCRIBED AND ACKNOWLEDGED.—The charter of an intended corporation must be subscribed by five or more persons, at least three of whom must be efficient of the state and must be acknowledged by them before an officer authorized to take acknowledgments of deeds.

at least three of whom must be citizens of the state and must be acknowledgments of deeds.

Corrotate Name.—The corporate name of every corporation (except banks and corporations not for pecuniary profit) must begin with the word "the" and end with the word "every corporation," "company," "association" or "society," and such mame must mitigate the character of business to be carried on the part of the profit of the pro

TREASURER. Treasurer must keep his office and funds in

DIRECTORS LLABLE.—Directors knowingly declaring and paying any dividend, when the corporation is insolvent, or rendering the corporation insolvent, jointly and severally liable for debts then existing or afterward contracted, to amount of dividend, BEGIN RESINESS—Corporations must begin business within five years from filing of charter, or are thereby dissolved. LIABLITY OF STOKINLIBES.—For debts of corporation innited to amount due on stock, and a sum in addition equal to amount of stock owned.

HAT MAXIME COMPORATIONS.—Hydraulic corporation or irri-gating company may self or lease any portion of its power, and may convey water in pipes, canals, etc., or other power by shaft-ing, etc., and may borrow money or issue bonds on franchises and property. (Blank charter forms may be secured from office of secretary of state on application.)

Any article intrusted to mechanic, artisan or tradesman (or alteration or repair is subject to lien, and if not paid in three months may be sold.

months may be sold.

One on contract with owner, trustee, agent, husband or wife of owner of land, for furnishing any material to build, after or repair structure, or furnishing or performing lador, or for trees, side performed to the structure, or furnishing or performing to build, after or repair structure, or furnishing or performing to building, etc.

Original contractors have four months and sub-contractors and alborers sixty days, after material was last furnished or work done, in which to file lien with clerk of district court, and one year after filing to begin sulf for enforcement.

All rights assignable. If note he given for infinity, and action to be allowed agreements of the latter or either the haborer, lien lies as above.

Altorney's fee allowed agreed after the baborer, lien lies.

s above.

Attorney's fee allowed against defendant and property.
Lightning rods not considered in the preceding.
Bond approved by clerk of district court for payment of claims,
and not less than contract price, avoids all liens.
Public work, bond to state must be filed in contract price.
FOR IRENT. Owner of building or land has lien on goods or
rops., Attachment lies for removal without paying rent, at time or within thirty days after removal.

SHAFT.—Escapement shaft must be two distinct means of ingress and egress, connected with each level worked, and catch at least one hundred (eet from main shaft through natural strata. Must be constructed as main shaft is opened. Fulling to provide, punished by fine and inprisonment.

ENGROACHMENT.—Party charging files affidavit and gives bond for expense of survey, whereupon count orders county surveyor to make survey and report, upon which injunction may issue.

City may contract for mining under streets, alleys and public

-Company must keep ready for inspection a correct

promises—company must keep ready for inspection a correct bloom of the control of

inore is taken.

ISSPECTOLE, A state mine inspector appointed by the governor has general supervision of all mines, safety appliances, venthation, reports, etc.

ISJULY, —Injury to persons or property by violation of act
renders operator liable to person injured, or heirs,

MINOR, —Minors under twelve years of age not supployed, nor
between twelve and sixteen unless can read and write, and has
attended school three months in same year.

SHOP-Pringits. Shot-libers must discharge all blasts where

explosives are used, and that only once a day when all others are

MISDEMEANORS. To fire blasts until coal is "mined" two feet, or full depth of drill; to fail to furnish shot-firers; to take down more than live pounds of powder.

# KENTUCKY

Compiled by W. O. HARRIS, Attorney at Law, 30 and 31 Bull Block, Louisville, Ky.

#### CORPORATIONS

Corporations are formed by filing in the county clerk's office articles of incorporation signed and acknowledged by two or for upon the corporation the usual corporate powers including that of exempting the private property of the stockholders from corporate debts.

Within three months from the filing of the articles the corporation must publish from resecutive weeks, in some news-

- ration must publish for four consecutive weeks, in some newspaper as convenient as practicable to the princheal place of business, a notice specifying:

  1. The names of the corporators, the name of the corporation and its principal place of transacting business.

  2. The general nature of the business purposed to be transacted, and the name of the corporation when and the conditions upon which it is to be paid.

  4. The time of the commencement and termination of the corporation
  - poration.

    By what officers or persons the affairs of the corporation are to be conducted, and the times at which they are to be

  - checker.

    6. The highest amount of indebtedness or liability to which the corporation is at any time to subject itself.

    7. Whether private property is to be exempt from the corporate debts.

Material-men are given a flen, datting from the commencement of the work, upon the improvement and the interest of the employer in the land, for all materials furnished for the erection, improvement or repair of any building or structure or any fixture thereto. Subcontractors acquire a len upon the amount due the contractor by giving the employer written notice of their claim, and that they look to the land and improvements for their condocs not pay, and the lessor after taking possession refuses to pay, the building or improvement may be removed after sale mader the suit to enforce the hen, if such removal will not injure previous improvements. The claim for the lien must be filed in the county cierk's office within sixty days after the material is in the county cierk's office within sixty days after the material is intrished, and it must state the name of the person to whom the property on which a lien is claimed, and a bill of the items furnished, with prices. The lien is entorced by suit in equity commenced by anyone claiming a lien within twelve months from the completion of the work. If one lien claimant commence such suit, all others may file and prove up their liens without formal plendings.

There is no statute glying to laborers in mines a lien for their

### MINING.

An inspector of coal mines is appointed by the governor with the advice and consent of the senate. He receives a susary from the state of \$1,850 per annum and his traveling expenses, and his duty is to visit each coal mine in actual operation as often as may be necessary and examine its condition with respect to ventila-tion, drainage, thubering, ingress and eigeress and general secur-ity, and it he finds the same defective in any respect to northy

the superintendent or owner and require him to remedy the defect. For a failure to comply with the inspector's requirements within sixty days from receipt of said notice a fine of \$50 per day is provided.

The inspector is required to keep an office in the state-house at Frankfort and to keep a record of all his inspections. He is also required to furnish upon application a certified copy of his report of inspection to the commonwealth's attorney of the district in which the mine inspected is situated, which copy is made prima facie evidence in any court of the state.

REFORES—The inspector is required to make a report to the REFORES—The inspector is required to make a report to the number of cecidents occurring, together with state other information concerning the condition and operation of the mine as he may deem useful, making such suggestions as to further legislation as he may deem proper. To enable him to make such reports, owners and operators of mines are required to give information on blanks to be furnished by the inspector, under a penalty of \$50 fine.

any deem useful, making such suggestions as to further legislations of the mass of the property of the propert

more than \$20.

more than \$20.

Any person employed in a mine who intentionally and willfully neglects or refuses to securely prop the roof of any working place under his control, or neglects or refuses to obey any order given by the superintendent of the mine in relation to the security of that part of the bank where he is at work, and whose willfully does any act endangering the lives or health of persons employed in a mine or the security of the nine or machinery, shall be theel from \$10 to \$50.

### MILLDAMS.

Any person owning land on a water-course, and desiring to erect a gristnill or other mill useful to the public, and needing a dam in or across the water-course, may, by petition in writing filed in the county court of the county in which the larger portion of the land is situated, obtain therefrom a writ for the purpose of making the necessary condemnation, which shall embrace all the land denanded, whether lying in the same or other counties.

Ten days' notice must be given to every person whose rights would be affected by the condemnation. The writ shall be directed to the sheriff of the county, who will at once inspanel a jury of twelve men, who shall decide as to the height of the dam and the amount of land condemned which is not owned by the applicant and which is covered by the applicant and which is covered by the everal parties the amount of the damages as the retained by the court, he shall have a writ of possession and otherwise proceed according[to such leave.

#### WAGES.

It is provided by Section 24 of the constitution of Kentucky, adopted September 28, 1891, as follows: "All wage-earners in this state employed in factories, mines, workshops or by corporations shall be paid for their labor in lawfut money. The general assembly shall prescribe adequate penalties for violating this section." By an act passed at the present session of the general assembly, and which takes effect after the end of the session, a penalty of \$500 is imposed for any violation of the above section.

# LOUISIANA

Compiled by Frank L. Richardson, Attorney at Law, No. 7 Camp Street, New Orleans, La.

CORPORATIONS.

Corporations must be formed under the general incorporation laws of the state, not by act of legislature.

Any number of persons, exceeding six, may organize themselves for literary, selentific, religious or charitable purposes. The act may be by public or private act, and it, thall state objects, name, side and time of officer on whom citation may be succeeded to the state of the state of

The name and title of the corporation and the place chosen for its dominist of the purposes for which it was organized, the second of the business to be carried on and the designation of the officer on whom citation may be served. The amount of the capital stock, the number of shares, the amount of each share and the time when and the number in which payment on stock subscribed shall be made.

The mode in which the election of directors or numagers

4. The mode in which the election of directors or managers shall be conducted.
5. The mode of liguidation at the termination of the charter. Publication of charter to be made once a week for thirty days at domicile; charter must be recorded in office of recorder of mortgages; charter amended or dissolved by a vote of three fourths of the stockholders.
Telegraph and telephoners of the stockholders.
Telegraph and telephone companies shall have the right of way to be considered to the stockholder.
Raliroad, plank-road or telegraph corporations may expropriate land for their uses, jury to fix value, appeal not to suspend execution.

ate land for their usos, jury to fix value, appear not fo suspend Leveution.

LAMITED Componations, for the purpose of carrying on merganitic business, and all other legal business not heretofore merganitic business, and all other legal business not heretofore the persons, are authorized to be established by Act No. 36 of the state legislature. The form of corporation act is to be the same as that required for corporation for public line. Corporations for minimal mechanical or manufacturing business, experience of the state legislature of the state powering business, experience of the state powering corporations for minimal mechanical or manufacturing husdiness, experience of the state of the state of the state in the state of persons to be more than the state of the state governing corporations in general. Anthorized by Act No. 111, July 5, 1882;

BANKING CORPORATIONS.—Free banking act passed in the persons to be more than the state of the state powering of the state inhibited to five years. Articles of incorporation to contain same provisions as above set forth. All stock subscribed must be add up in full within twelve months. No loans shall be made to any stockholder on pledge of its own stock. Monthly publication of statements shall be made by banks und operating under free banking act. as to others, quarterly statements only required. XXXIVES, XXIVES, XXIVES, XXIVES, AMER DEPOSPORT AND TRUST BANKS.—Authorized by

MARGOT (SE.)

SAYINS, SAYE DEFOSIT AND TRUST BANKS.—Authorized by Act No. 150, of year 1888, also by amendment may act as frustees, Lacessee Tax.—A graded literus tax is levied, according to the amount of business. Stock of all corporations assessed for taxino without deplacting value of United States bonds and other

tion without deducting value of United states boing and other exempt securities. It is a second as full paid, but not in fact paid up, is winding to be issued by the state constitution of 1879. A state license is required of all insurance corporations doing business in the state, whether foreign or local. The license is graded upon the amount of premiums taken in, the highest being \$1.750 per annum and the lowest \$900 per annum. Provided by act of 1890.

A license is required of other corporations doing business in this state through an agent, in proportion to the amount of business done. Foreign corporations doing business here are required to appoint an agent here, on whom citation can be served in case of sult.

LIENS.

LABORRE'S LIEN.—Employes have a lien on all manufactured materials for thirty days after the maturity of the debt due them for wages; but this lien does not affect such materials in the hands of good faith purchasers.

LIEN FOR MATERIALS.—Those persons who supply the owner or other person employed by him, his agent or sub-contractor, with materials, which are intended for and are used in the cree tion or repair of any edities or other work, have a lien or privilege on the building or work erected, and not exceeding one are of land on which building or work erected, and not exceeding one are contained to the contract of the tenant, the privilege attaches only to the leasehold. To perfect the lien the seller must record in the office of the recorder of mortgages of the parish where the property is situated the act containing the bargain made, or a detailed statement under of mortgages of the parish where the property is situated the act containing the bargain of the materials farmished, and that of recording. There is no priority between lien bolders. In our priority between lien bolders.

The lien of the materials farmished, and the owner must retain such of the materials farmished, and the owner must retain such as the materials farmished, and the owner must retain such of such an account, the owner must farmish a copy to the contractor. If the contractor does not notify the owner may buy the sub-contractor and deduct from amount owing contractor. The intensity of dispute the claim, the owner may buy the sub-contractor and deduct from amount owing contractor. The intensity of dispute the claim, the owner may buy the sub-contractor and deduct from amount owing contractor. The contractor does not notify the owner may buy the sub-contractor and deduct from amount owing contractor. If the contractor deliam, the owner must pay the sub-contractor and deduct from amount owing contractor.

#### MINING.

There are no special laws in the state relating to mining.

# MAINE

Compiled by CLEMENT B. DONWORTH, Attorney at Law, Donworth Block, Main Street, Machias, Me.

## CORPORATIONS.

stock held by each. Such records and book shall be open at all reasonable hours to the inspection of persons interested; but this provision as to list of stock holders does not apply to any corporation doing business in the state and having a treasurer's office at the state and having a treasurer's office at fig. the manes, residences and amount of stock of each stockholder. The elerk or other officer of the corporation shall, within twenty days after the election of a clerk, or change of location of the clerk's office, file in the office of the registry of deeds in the ounty where the corporation is established or has its principal office or place of usiness a certificate giving the full name and residence of the cierk and the location of the clerk's office.

OFFICERS, THEIR QUALIFICATIONS AND TENURE.—The offi-cers shall consist of a president, clerk, treasurer and board of not elected president of the corporation. The officers shall be chosen annually and shall continue in office until others are chosen and qualified in their stead. The directors must be stockholders, The clerk shall be sworn and shall keep a record of all votes of the corporation. The treasurer shall give bond for the faithful discharge of his duties

TAXATION.—Mines of gold, silver, or of the baser metals, when opened and in process of development, are exempt from taxation for ten years from the time of such opening. The buildings, lands and other property of mining and smelting corporations, made personal by their charters and not exempt from taxation, are taxable to the corporations; and shares of the capital stock shall not be taxed to the owner thereof.

LIABILITY OF STOCKHOLDERS,—No stockholder whose stock has been fully paid in, and no part of the principal has been withdrawn, is liable for corporate debts; but when cerporate property cannot be found with which to satisfy such debts, each stockholder's stock and interest in stock made seized and sold on exceution, and he may recover of the corporation the value of the stock and interests to taken.

#### LIENS.

Whoever digs, hauls or furnishes rock for manufacture of line, and whoever labors in any quarry in quarrying, cutting or dressing grantle, or in mining, quarrying or manufacturing state, has a len for his wages on such line rock for thirty days after the neek is manufactured into line or until such line is sold or shipped on board vessel; and on the granife is quarried, cut or dressed for thirty days after such granife is cut or dressed or until it is sold or shipped on board vessel; and on all state so mined, quarried or manufactured for thirty days after such slate arrives at the port of shipping, and such lens have precedence of all other claims. No statute liens on ores and metals.

# MARYLAND

Compiled by Ellioti & Hoffman, Attorneys at Law, Daily Record Building, Baltimore, Md.

### CORPORATIONS

Corporations may be formed by five or more persons, effizens of the United States, and a majority of them effizens of the State of Maryland.

Articles of incorporation must state:

1. Names in full and places of residence of the applicants.

2. Name of the corporation must state:

3. Object or purposes for which formed.

4. Place or places where the operations of the corporation are to be conducted, and where principal office of the corporation are to be conducted, and where principal office of the corporation are to be conducted, and where principal office of the corporation are to be conducted, and where principal office of the corporation are to be conducted, and where principal office of the corporation are to be conducted, and stored in the state will be located.

5. The munt of capital stored in an area of the corporation for the first year.

6. Amount of capital stored is fine the corporation for the first year.

7. The number of starts of the corporation for the first year.

7. This certificate must be certified to be in proper form by one of the endough of the county or city in which the principal office of the corporation is to be located, and must then be recorded in the clerk's office of the circuit court of the county, or the superior of the corporation is to be calculated.

The state imposes an incorporation to the extent of his unpaid subscription to its stock, and no further.

The state imposes an incorporation tax of one-eighth of one per cent, on the capital stock of new corporations, excepting cemetery, religious, charitable and ratifoad corporations.

There are provisions under which it is made necessary for the president or other officers of a corporation located or doing business in this state, domestic or foreign, to make chief reports. Stored many the complex of the capital stock of the worporations, excepting cemetery, religious, charitable and ratifoad corporations.

There are provisions under which it is made necessary for the present of the complex of the complex of the component of

appeal, within thirty days, to the comptroller and treasurer, who must both agree in order to any alteration of the tax commissioner's determination.

Foreign corporations, except insurance companies, do business and hold property without restriction.

## MINING AND QUARRYING CORPORATIONS.

Any five or more persons, citizens of the United States, and a majority of them citizens of this state, may form a corporation of (1) conducting any kind of mining business in this state, and when the principal office of said corporation is located in this state, and when the principal office of said corporation is located in this state; (2) for washing, dressing, smelting and otherwise preparing for and bringing to market and selling the ores of all kinds of metals; (3) for opening and working quarries of marble, state or other economic minerals or unineral substances in this state, and for the manufacturing, transportation or exportation and sale of the manufacturing transportation or exportation and sale or other mineral springs in this state, and for boring for said corporation is located in this state.

Xo such corporation is located in this state.

Xo such corporation shall hold more than one thousand acres of land at any one time, if said corporation is situated in Allegany toor shall like sapital stock exceed success if nay other county, nor shall like sapital stock exceed success if nay other county, nor shall like sapital stock exceed success in any seeding of stockholders or members.

The president and directors of any such corporation shall be invested with full power to locate and construct a railroad or all successary to form a quorum for business at any meeting of stockholders or members.

The president and directors of any such corporation shall be invested with full power to locate and construct a railroad or railroad, or accommodation of the works of the Chesapeake & Ohio Canal Co., or the main route of the B. & O. R. R., or the works of any other railroad company chartered by this state, exceeding the said of the state of the st

All buildings erected, repaired, rebuilt or improved, to the extent of one-fourth of their value, all machines, or wharves or bridges erected, constructed or repaired in this state, and all boats or other vessels built, equipped or repaired, are subject to the liens of the mechanics or other persons who have done the work or furnished the materials. To secure the lien and lay a willin is subject to the continuous endough the continuous willing the mouths after the last work has been done. Here cleim in the superior court for the city of Battimore, or in the circum court for some country. The claim is to be recorded in a book kept for that purpose. These claims may be enforced by self-time and the continuous endough the contin

# ${ m MASSACHUSETTS}$

Compiled by H. L. BAKER, Attorney at Law, John Hancock Building, Boston, Mass.

# CORPORATIONS,

FORMATION OF.—Three or more persons may associate to-gether by an agreement in writing for the purpose of forming a mining corporation, with a capital of not less than \$5,000 or more than \$1 ooo ooo

AGREEMENT, NAME AND ORGANIZATION. – Such agreement shall set forth:

1. The name assumed.

2. The purposes for which it is formed.

3. The town in which it is located (in this commonwealth).

4. The amount of its capital stock and the par value thereof, and the number of shares.

The first neeting shall be called by a written notice given to all subscribers, for the purpose of temporary organization, and each subscriber shall take an equal number of shares of the capital stock unless otherwise agreed. The president, treasurer and a majority of the directors shall sign and swear to a certificate setting forth a copy of the agreement, with the names of all the subscribers thereto, dark shall submit such the tendent adjournments thereto, and shall submit such the commissioner of corporations, who shall theretopon issue a certificate of incorporation, which shall have the effect of a special charter.

OFFICERS AND BY-LAWS.—The business shall be conducted by a president, board of directors, elerk, treasurer and other officers: but no mortgage of real estate or lease for more than one year shall be given except by vote of the stockholders.

The board of directors shall consist of releast breaking the members, the control of the stockholders of the stockholders. The board of directors shall consist of releast breaking the members, the stockholders of the shall be sometimed by the stockholders of the shall be sometimed by the shall be s

may your by proxy authorized by a writing.

"APITAL STOCK,—Stock may be transferred by a written instrument recorded in the clerk's book. The amount of the capital stock may be increased or diminished by you for fit estockholders, subject to the provisions of this chapter (157). Assessments may be made upon the shares not exceeding the par value thereof, and shares of members not paying assessments may be sold. The corporation shall not commence business until the whole amount of its capital stock has been pald in, and a certificate of such fact made and recorded; but conveyances of real or personal property will constitute such paying in.

PUSINESS OF CORPORATION.—Any corporation thus created may purchase and hold real estate and personal property necessary to its business, and may carry on business outside of this commonwealth, but shall not direct its operations to other purposes than those mentioned in its agreement of association; but its business may be altered, added to or changed by the stockholders at a special meeting called for that purpose

CERTIFICATES AND RETURNS.—An annual certificate must be filed setting forth the time of last annual meeting, amount of capital stock at such time, the amount then paid in, and the assets and liabilities of the corporation; and upon failure so to do for two successive years, the commissioner of corporations may apply to the supreme court for its dissolution. Certificates mist also be filed upon an increase or reduction of the capital stock.

be filed upon an increase or reduction of the capital stock.

LIABILITY OF OFFICERS AND STOCKHOLDERS,—The president and directors shall be liable for making or consenting to a dividend by which the corporation is rendered insolvent, to the extent of such dividend is repayment. It amount allowed the control of the composition of the control of the co

paid weekly.

Roads, drains, ditches, funnels and railways may be established
through lands of adjacent owners or over highways, upon petition to the county commissioners, proper proceedings instituted
thereupon and assessment of damages for injuries to such owners.

The above provisions apply also to quarrying companies, in
which ease the capital stock shall not exceed \$500,000.

Provision is made for returns of foreign corporations having
offices in this commonwealth. (Statutes 1882, Chap. 106; Statutes
1882, Chap. 106; Statutes

Provision is made for returns of foreign corporations having offices in this commonwealth. (Statutes 1882, Chap. 166; Statutes 1886, Chap. 230.)
Corporations owning mines or quarries outside of this commonwealth, or incorporated under the laws of any other state and having an office or place of fursiness within this commonwealth, shall pay a tax of one-twentieth of one per cent, upon the par value of the capital stock.

## LIFYS

Any person to whom a debt is due for materials furnished and actually used in the erection, alteration or repair of a building or consent of the owner or his agent, shall have a lien on such building and the interest of the owner in the hand upon which such building is situated. But no lien shall lattach if these be purchased by a person other than the owner, mises a written notice be previously given of the intent to claim such lien. The owner of such building, if he be a person other than the party by whom or in building, if he be a person other than the party by whom or in ing of a lien for materials not then furnished, by a notice in writing given to the person turnishing such materials. The lien shall not avail against a prior mortgage duly recorded. A statement of a just and true account of the amount due, a description of the property and the name of the owner must be filed in the registry of decils within thirty days after ceasing to furnish materials; and soft must be builded in the control of the subject of the court when the claim those not exceed \$800, and proper proceedings had thereupon, the owner being duly summoned, and the debtor and all creditors having lien upon the estate being duly notified of such perition. Upon the establishment of a lien

a sale of the property will be ordered by the court. Any interest in property so sold may be redeemed within one year. Creditors as in concerns a sign in any her reflectived within one year. Creditors contlided to a lieu skall share the proceeds of such skale in proportion to their respective debts, but a creditor having previously attached skale in proportion in the provisions of this chapter (122) survive. Any person entitled to a lieu may pursue his common-law remedies also.

#### MILLDAMS.

Milldams may be erected across non-navigable streams subject to conditions. No such dam shall be erected to the injury of any dam already existing. The height of water and the length of time which it may be kept up may be regulated by the vertice of a jury. All persons injured by flowage or otherwise may other compensation therefor upon petition to the superior court, and proceedings thereupon, the remedy so given taking the place of any common-law remedy. No milledam shall be constructed or materially altered until specifications of the proposed work have been approved by the county commissioners.

# MICHIGAN

Compiled by R. C. Flannigan, Attorney at Law, Norway, Mich. CORPORATIONS.

CORPORATIONS.

MINING, SMELTING AND METAL MANUFACTURING COMPANIES—Any number of persons, not less than three, by articles in writing may organize themselves into a corporation for the nurpose of engaging in and carrying on any kind of mining business, or for refining, smelting or manufacturing any or all kinds of ores, miperals or metals, or for both mining, refining, smelting or manufacturing any or all kinds of ores, miperals or metals, or too hoth mining, refining, smelting of ores, miperals or metals, or too hoth mining, refining, smelting in the propose of the subscribers, and shall state the purpose for which the corporation is formed; the amount of the apital stock, which shall not be less than \$10,000 nor more than \$2,500,000; the number of shares of \$55 each; the amount of cash actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal actually paid in; the eash value of any property, real or personal or the business of the corporation within the state of its office for the transaction of business; the county or counties in the state where the business of the corporation is to be carried on; the number of which is a property, the county developed to a control of the order of th

make and file this report, and if they, or either of them, willfully and intentionally neglect to make and file the same they may be eriminally punished as for a misdemeanor.

Expriving the das for a misdemeanor.

Lydiving vs. 4.1-Alli-LTV or Struckholders are made individually liable for all labor performed for the corporation, which liability may be enforced by an action in assumpsit, commenced within two years from the time when payment for such labor became due and not afterward. An action for labor cannot be maintained against a stockholder alone; the corporation must be joined, and a judgment against the corporation alone is a bar to a subsequent action against the stockholder any or all of the stockholders and the corporation pointly, but a levy upon the property of the stockholder is not permitted until the property of the corporation has been exhausted. Any stockholder who is compelled by action to pay the debts of the corporation in whole or in part may call upon all the stockholders to contribute their part of the sum paid by him, and may sue them the results of the corporation in white or in part may call upon all the stockholders so such, suits for labor may be commenced against the corporation alone at any time within six years from the according of the cause of action, as in other personal actions.

ible ratable amount due from the stackholder or stockholders so such. Sults for labor may be commenced against the corporation alone at any time within six years from the accruing of the cause of action, as in other personal actions.

May textual thing from the personal actions of the capture of the purpose of carrying on any manufacturing or mercautile business or any union of the two. The articles shall be made on uniform blanks furnished by the secretary of state; shall be signed and acknowledged by the persons associating in the first instance, and shall state the name of the corporation; the purpose or purposes for which its operations, are to be seen than \$5.000 nor more than \$5.000,000, except corporations formed for the manufacture of cheese or other products of milk, in which companies the capital stock shall not be less than \$5.000 nor more than \$5.000,000, except corporations formed for the manufacture of cheese or other products of milk, in which companies the capital stock shall not be less than ten per cent, of the capital stock shall not be capital actually paid in at the date of the articles, which shall not be less than ten per cent, of the \$5.000 capital of the term of the existence of the corporation, which shall not exceed thirty years, and the number of shares subscribed for by cach. The articles end in the office of the secretary of state and with the country cherk of the country in which the operations are to be carried in the office of the secretary of state and with the country cherk of the country in which the operations are to be carried in the office of the secretary of state, and the franchise tax being paid, the corporation may commence business. The property and business is handed and the paid of the country that the property action of the state, and the franchise tax being paid, the corporation at all tones has a found in the office of the coun

INDIVIDEAL LABILITY OF DIESCORS.—If the directors shall willfully neglect of refuse to make and file the annual report, they streeted the street of the stre

the offending directors on the books of the company.

INDIVID ALLAMILITY OF STOCKHOLLERS. Heapital stock is withdrawn and refunded to the stockholders before payment of all debts for which such stock would have been lable, the stockholders are made jointly and severally liable to creditors to the amount of the sum refunded to him or them respectively. The stockholder is also made individually liable for all labor performed in the corporation, to be enforced only after execution returned unsatisfied in whole or in part against the corporation, and the stockholder so compelled to pay may call upon all or any number of the responsible stockholders to contribute their equal part of the sum paid.

FIGACHISC TAX. Every corporation or association incorporated by or under any general or special law of this state is required to pay to the secretary of state a franchise fee of one-half of one mill upon each dollar of the authorized capital stock of the corporation and a proportionate fee upon any and cach subsequent increase thereof, the fee in no case being less than 85. The description of any corporation unless accompanied by the franchise fee.

secretary of state is prohibited from filing or recording the articles of association of any corporation unless accompanied by the
franchise fee.

Porriers Corporations—Foreign corporations organized
for the purpose of mining, smelting, refining or manufacturing
articles of incorporations with me more crief of the county in
this state where its operations are to be carried on, and with the
secretary of state, may carry on bisniess in the state, and shall
enjoy all the rights and privileges and be subject to all the restructions and habilities of domestic corporations organized for
the like purpose. Corporations organized under the laws of any
state of the I non-or of any foreign country of the Wicking are
to the organization of manufacturing companies, amon recording copies of their charter, or articles of incorporation, or memoranda of association, with the county clerk and secretary of state,
is in the case of domestic manufacturing companies, and upon
filing also in the office of the secretary of state a statement under
out showing the name and locality of the companies, and upon
filing also in the office of the secretary of state a statement under
out showing the name and locality of the company, the amount
of the company including cash on hand and in the hands of agents
of the company including cash on hand and in the hands of agents
or other persons, unincumbered read estate, bonds owned by the
company, how secured and rate of interest thereon, debts due to
the company secured by mortgag, debts otherwise secured, all
other securities and moneys, the total liabilities due or to become
due and all other claims against the company and upon appoint
of the company including cash on hand and in the hands of agents.

Foreign corporations engaged in the humbness of
smelling refining or reducing from lead, copper or other ores or
niherals within the state are required to make annual reports to
smelling refining or reducing from lead, copper or other new
order corporations organized and existing under the m the net yield in refined or smelted metal and the charge therefor-the net yield in refined or smelted metal and the charge therefor-there to see an unit of the charge therefore the constraints of the charge therefore, the constraints of the charge the charge the charge the charge the product rates separately; the amount of capital invested out of the state and how invested, and showing all other investments other than the amount actually invested in the business conducted in the state. If the officers whose duty it is to make and file the annual report shall neglect for a period of sixty days after the first Monday of July of each year to make and file the same, they are made liable to a fine of not less than \$5,000 nor more than \$5,000 for each and every offense, and the corporation, for every such neglect upon the part of its officers, shall, in the discretion addition to any line or fines collected of the officers, and the con-tinued reliasal or neglect upon the part of the corporation or its officers to file the reports after any suit or action shall have been fought to enforce the penalty will work a forfeiture of the com-pany's right to do business within the state. Foreign mining

corporations not engaged in the business of smelting or reducing ores and foreign corporations doing business in the state under in manufacturing company act are required to file a report similar to the report of the domestic corporation and under like pen-

TAXATION.—The law imposing a specific tax for state purposes on corporations engaged in the business of anthing, smelting, refining or manufacturing ores, metals or minerals, was lately repealed, and the property, real and personal, of the corporation, whether toreign or domestic, is taxed for state and other purposes under the general provisions of law relating to the assessment and collection of taxes. The capital stock as such is not taxed.

lection of taxes. The capital stock as such is not taxed.

'ORPORATIONS OTHER THAN FOR MINING ON MANUFACTURING- In the Michigan statutes will be found special acts for the organization of the manufacturing and the such as a such as the such as a such as a

### LIENS.

MECHANIC'S LIEN.—Every person who shall, in pursuance of any contract between himself and the owner, part owner or lessee of any interest in real estate, build, after, improve, repair, erect, ornament or part in or who shall furnish any labor or material in or for building, aftering, improving, repairing, erecting, ornamenting or putting in any house, building, machinery, wharf or structure, and every person who shall, as sub-contractor, in the original or principal contractor or to any sub-contractor in carrying on, forwarding or completing any such contract is afterning on forwarding or completing any such contract is afterning on the entire interest of the owner, part owner or lessee in and to the lot or piece of land, not executing one-quarter section of land, or, if an incorporated village or city lot, not exceeding the original to the lot or piece of land, not exceeding one-quarter section of land, or, if the individual contract or by the sub-contractor who furnishes or is furnished with any labor or materials to the extent of the right, title and interest therein of the owner, part owner or lessee. The person, firm or or opporation furnishing naterial is required within ten days after the sale to serve on the owner, part owner or lessee, crossee, or on his agent, if such owner, part owner or lessee essee, or on his agent, if such owner, part owner, part owner or lessee, which has a known agent in the county in charge of the structure, a fairly detailed statement of the goods so sold. The owner, part owner or lessee will not be liable to the structure, a fairly detailed statement of the goods so sold. The owner, part owner or lessee which he may sustain by reason of any dainer or omission in the performance of the contract; but the risk of all payments made to the original contractor when the relamant for labor performed or materials furnished shall lave, before or at the time of the commencement of the performance of the contracts out the failure or omission in the performance of the contract; but the claimant for labor performed or materials furnished shall have before or at the time of the commencement of the performance of before or at the time of the commencement of the performance of ister of deeds of the county where the structure is located a written notice that the lieu will be claimed for the above or materials, giving a description of the premises and the name of the owner, part owner or lessee and contractor, and within the same time shall have served a copy of such notice on the owner, part owner or lessee until the expiration of sixty days from the date on which the last of the materials shall have been furnished or the last of the labor shall have been performed; and no pay stay days grow the last of the labor shall have been performed; and no pay stay days period shall defeat any lieu of any sub-contractor, materials man or laborer unless such payment has been distributed among the sub-contractors, materialmen of all both or shall defeat any lieu of any sub-contractor, material-mong the sub-contractors, material-mong has belonging to a narried woman with her knowledge and consent, and in pursuance of a contract with the husband, the lieu attaches upon the property the same in all respects as if such contract had been made with the wife; and in case the lieu attaches to the lands and improvements, if the improvements be made in pursuance of a contract with both of them or a pursuance of a contract with both of them or a pursuance of a contract with both of them or a pursuance of a contract with both of them or a pursuance of a contract with both of them or a pursuance of a contract with both of them or a pursuance of a contract with both of them or an activation of the pursuance of a contract with both of them or a pursuance of a contract with both of them or an activation of the pursuance of a contract with before an activation of the pursuance of a contract with one of them, by and with the knowledge and consent of the other. If

due or to become due to the original contractor an amount sufficient to pay the demands of the sub-contractor, material-men or laborers who have filed and served notice of their intention to claim a lieu. The original contractor, whenever any payment shall become due or whenever he desires to traw money from the owner, come due or whenever he desires to traw money from the owner, in the property of the original contractor, whenever any payment shall become due or whenever he desires to traw money from the owner, mumber and names of every sub-contractor or laborer in his employ, and of every person furnishing materials, giving the amount, if anything, which is due or to become due to the come due or to become due to the contractor, an amount sufficient to pay all such demands whether other or to become due and all payments whether the contractor, an amount sufficient to pay all such demands whether the original contractor of the contract, and all payments such extended the same as figuid to the original contractor direct. This is defended the same as figuid to the original contractor of the contract, and all payments made by the owner before such statement is made or without retaining sufficient money, if that amount be due or is to become due, to pay the sub-confractors, laborers or material-men, as shown by the statement, is considered illegal of the original contractor of the contract, and their right to a lien shall not be affected thereby. If neither the owner nor his agent can be found within the county where the structure is made, the contractor is not obliged to deliver the statement as a prerequisite of the institution of proceedings to fasten his lien or such other proceedings as he may be advised. The owner may at any time during the process of the work tenand in writing of the contractor is not obliged to deliver the statement as a prerequisite of the register of deeds of the county or counties in which the contractor is not obliged to delive the statement as a prerequisite of the register of deeds o

#### MINING

MINING OPTIONS.—Any person holding a mining option or agreement for a mining lease or license to explore or mine on lamks in this state, containing a clause allowing the lessee, his personal representatives or assigns, to surrender such lease or license notice, has an absolute right to base such option or agreement specifically enforced, if not in default himself; and any person holding an agreement for an interest in any mining lease or license from the lessee is entitled to have the same specifically enforced, if not in default himself. All mining options, leases and heenses are assignable and survive and may be enforced by the executors, and ministrators, personal representatives or assignation of the party of the control of the proposed of the party of the control of the proposed of the party of the control of the proposed of the party of the control of the proposed of the party of the proposed of the proposed of the party of the proposed o levy and sale on execution.

MNING LLESS.—Every person who shall furnish or perform any labor for any corporation organized for the purpose of ming, smelting or manufacturing ores or minerals in the Upper Peninsula of Michigan and every bona fide holder of any draft or order for the payment of money due for any such labor, issued or drawn by any officer, clerk or agent of any such corporation, is given a lien for the amount due thereon or therefor upon all the real and personal property of the corporation lying and being in the Upper Peninsula, which lien takes precedence of all other debts, judgments or decrees, liens or mortgages, except liens accruing to the state for taxes, fines or penalties.

### MINNESOTA

Compiled by A. E. McManus, Attorney at Law, Duluth, Minn,

### CORPORATIONS

The law of the state of Minnesota relative to the organization, The law of the state of Admiesora relative to the organization, powers and rights of corporations for the purpose of mining, smelting, reducing or reining ores or minerals, or for working coal mines or stone quarries, marketing the material, or for manufacturing brick, stone or iron, steel, copper or other metals, or for the purpose of buying, selling, working and dealing in mineral or other lands, or for the whole or any part of said purpose is no follows:

ARTICLES OF INCORPORATION. Any number of persons, oot less than three, being desirous of forming a corporation under the above head, may do so by signing and severally acknowledging articles of incorporation which shall declare that they do

thereby associate themselves together and agree upon the articles for the purpose of forming a corporation under the provisions of an act of the legislature of the state of Minnesota, entitled "An act to authorize the formation of corporations for mining and smelting ores and for manufacturing iron, copper and other metals," approved February 24, 1876, and the acts amendatory thereof. The articles shall also set out:

1. The name of the corporation, which shall not be the same as that previously assumed by any corporation in this state.

2. The general nature of the business to be carried on, and the place of the principal office or headquarters of the company. See the principal office or headquarters of the company at the composition of the principal office or headquarters of the company.

4. The amount of the capital stock and the limit of indebtedness. (This last may be omitted and provided for in the bylaws. It, however, is generally inserted in the articles of incorporation.

RECORD, FILING, ETC.—These articles must be executed in duplicate, one copy filed with the register of deceds in the county in which the principal office of the company is located, or, if the principal office is without the state, then in the county where the office of the company is located, as hereinafter provided, and the other copy with the secretary of state in SC, Pail, Minn.

PUBLICATION.—No publication of the articles of incorporation is necessary, but upon the depositing of the articles, as herein set out, the corporation is decimed to exist as a mechanical and manufacturing corporation; may sue and be said in its corporate manue; contracted with, and carry on the business mentioned in said articles; purchase, acquire, hold, use, self, transfer, and of the angular contracted with an experiment of the purposes of said corporation.

EVIDENCE.—The certified copy of said articles from the said register of deeds or secretary of state shall be evidence in all courts of the existence and legality of the organization of such

AMEXPMENTS OF ARTICLES.—The articles of incorporation may be amended by a majority vote in amount of the stockholders at any regular meeting of the same, or at a special meeting of the stockholders called for that purpose. And such amendment, after being duly certified, must be deposited for record in the same manner as the original articles.

CAPITAL STOCK.—The amount of the capital stock shall in no case be less than \$10,000, divided into shares of \$100 cach, and cach share shall have one vote at any stockholders' meeting, and may be represented in person or by proxy in writing.

TRANSFER.—Such stock is considered under our law as personal property and may be issued, sold and transferred as may be prescribed by by-law or resolution of said corporation or its managing board, and no stock purporting to be full paid shall be subject to assessment in the hands of the lawful holder without lifs consent. (Stock in a corporation such as herein described is prima face subject to levy for the debts of the holder until the same is transferred to someone else upon the books of the company, unless, by by-law, the transferr is otherwise provided for.)

By-Laws.—Such corporation may prescribe and adopt by-laws for the management of its business, and such by-laws may be amended by the board of directors from time to time and may also be amended by the stockholders at any regular meeting, and such amendment by stockholders at any regular meeting, and such amendment by stockholders all stand until repealed or changed by the stockholders at some regular meeting thereafter. A copy of all by-laws, duly certified, and all amendments and alterations shall be filed in the same manner as the articles of incorporation.

By Annow Directors, Unit the corporation shall have been only organized and the board of directors elected the persons executing the articles of incorporation shall constitute a first board of directors, with full authority and power to act, to draw up and approve by-laws and do all things necessary to complete the organization of said company.

RECORD OF PROCEEDINGS. The corporation must keep a record of all proceedings had at any stockholders' inceting, in books kept for that purpose. Also all official acts of its board of directors, trustees or officers, and such record shall at all times be open to the inspection of any stockholder on demand.

OFFICE, PLACE OF RESINESS.—The officers of the company may be located without this state, and the board of directors may meet to transact business without the state, provided that an office of the corporation be maintained with some suitable person in charge within the state where legal process may be served, and service of process upon the officer or person in charge of the said office is considered and constitutes service upon the corporation.

POWERS OF CORPORATIONS TO MORTGAGE, NELLAND LEASE, Such corporation may mortgage, sell or lease its real estate on a majority rote of the stockholders and not otherwise.

STOCK IN OTHER CORPORATIONS. Such corporation, upon the election of a majority of the stockholders, may acquire and hold stock in other corporations.

MEFINOS.—The regular meetings of the stockholders shall be provided for in the by-laws, and such by-laws shall provide for the the by-laws, and such by-laws shall provide for the meetings of the board of directors, but in case a majority of the stockholders at any time wish a meeting they may call one irrespective of the by-laws, giving thirty days notice by pullication in a paper published at the place of the office of the company, or, if there be no such paper, then in a paper published at the capital of the state.

LIABILITY OF STOCKHOLDERS.—The stockholders in such a corporation incur no liability for the debts of the corporation under the constitution of the state of Minnesota, except in so far as they may be deprived of the value of their stock, the liability not being a personal one.

# MISSISSIPPI

Compiled by Brame & Alexander, Attorneys at Law, Jackson, Miss.

### CORPORATIONS

[Code 1892, §§ 832-860,]

[Code 1802, §§ 832-803.]

Corporations for every lawful purpose and of every kind, except for the construction and operation of railroads (other than street railroads) and the carrying on of insurance business, may be created under the general laws.

The persons desiring to be incorporated may prepare a charter, which is to contain a statement of the purposes of the corporation, the band, the powers to be desired to the corporation of the purpose of the corporation, the man, the powers to be proposed by the governor, on the advice of the attempt special particular to the published for three weeks, and when approved by the governor, on the advice of the attempt section, because the charter.

Corporations of benevolent societies, charitable associations and literary and religious societies, fare companies, mechanics' associations, fair associations and agricultural societies are not literary and religious societies, fare companies, mechanics' associations, fair associations and agricultural societies are not literary and religious societies, the condition of the server of the server of the care of the server of the county in which the corporation does business.

Every corporation thus created may hold necessary real and personal estate not exceeding \$250,000; banks and manufacturing

personal estate not exceeding \$250,000; banks and manufacturing companies, \$1,000,000.

Stockholders are liable for debts to the amount of their unpaid subscriptions to stock. The property and framelises of a corporation to stock. The property and framelises of a corporation state of the stockholders, and the stockholders.

Foreign corporations which exist by the laws of any other state, or by the acts of congress, or the laws of any foreign country, may sue in this state by their corporate names, and are liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be proceeded against by attachment or otherwise as liable to be a superior of the stockholders.

liable to be proceeded against by attachment or otherwise as in-dividual non-residents.

A note or security of any kind given by any subscriber is tock shall not be considered, taken or held as payment of any part of the capital stock of the company.

No part of the capital stock shall be withdrawn or diverted nor a dividend declared when the company is insolvent. Directors violating this are personally liable. The debts of a manufactur-ing or trading corporation shall not exceed the amount of its capital stock paid in. If this is violated the directors are liable.

### LIENS.

[Code 1892, §§ 2698-2715.]

[Code 1892, §§ 268-2715.]

Every building and any fixed machinery, and every water craft and railroad erected or repaired, is subject to a lieu for labor done or materials furnished about the erection, contained to the contained of the contained of the contained of the lieuter of the lieuter of land on which the building stands, and if not in a town or ullage, the lieu extends to and covers one aere of land on which the building may stand, if there he so much, to be selected by the holder of the lieu. If the structure he a railroad, the lieu shall extend to and cover the entire road-bed and right of way, in the lieuter of the chancery court.

The contract by which any labor is to be performed or material furnished may be in writing and recorded in the office of the to be done or where the materials furnished. When so recorded it shall be notice to third persons. A lieu may be enforced by suit within is knownths after the time when the money is due. Suit is to be commenced by pelition in the circuit court of the county, or in the justice court if the amount is less than two hundred dollars.

of the county, or in the justice court it the amount is resistant two hundred dollarer required to be summoned, and the state of the property to startly provides for trial, judgment and sale of the property to Sub-contractors and laborers may bind the amount due the contractor by giving the owner of the property or the person who is having the work done written notice is given any amount that is due the contractor when such notice is given any amount that is due the contractor shall be first applied to the payment of the debt he owes to the sub-contractors and laborer any articles. A field is also given on all carriages, buggle-or any articles and material employed in constructing, manifacturing or repairing the same, and the person to whom the price of said abor or material may be due shall have the right to retain possession of the articles until the lien is discharged, and if the debt shall not be paid within thirty days he may commence sult and have the lien enforced by a sale of the property.

# MISSOURI

Compiled by TRABER & MCNEIL, Attorneys at Law, Rooms 307, 308 and 309, Long Bros. Bldg., Kansas City, Mo.

#### CORPORATIONS (MINING).

CORPORATIONS (MINING).

FORMATION—Any three or more persons, having associated themselves together by articles of agreement in writing, may incorporate under any hame or title designating such bisiness. Articles of incorporation must set forth:

1. Name of corporation, which shall not be that of any other corporation or an initiation of the same.

2. The name of the city or town and county in which the corporation is to be located.

3. Amount of capital stock must not be less than \$2,000 nor more than \$10,000,000 and the number of shares into which it is divlided, the par value thereof; that the same has been homa after subserpied and one-half thereof actually paid up in lawful some and the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home after some hands of the same has been home hands of

the first year. Term for which the corporation is to continue (not exceed-

ing fifty years).
Purposes for which the corporation is formed

must be entrees and residents of this state and stockholders in such corporation) and the names of those agreed upon for the first continue (not exceeding fity years).

7. Purposes for which the corporation is to continue (not exceeding fity years).

7. Purposes for which the corporation is formed.

The articles of incorporation must be signed and acknowledged by all the parties thereto and recorded in the office of the recorder of deeds of the contry or city in which the corporation is to be located, and a certified copy of such instrument filed in the office of \$30 for the first \$50,000 or less of capital slock, and \$5 for every additional \$5,000 or less of capital slock, and \$5 for every additional \$5,000 or less of capital slock, and \$5 for every additional \$5,000 or less of capital slock, and \$5 for every additional \$5,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$5 for every additional \$6,000 or less of capital slock, and \$6 for every additional \$6,000 or less of capital slock, and \$6 for every additional \$6,000 or less of capital slock, and \$6 for every additional \$6,000 or less of capital slock, and \$6 for every additional \$6,000 or less of capital slock, and \$6 for every end by \$6,000 or less of capital slock, and \$6 for every end by \$6,000 or less of capital slock, and \$6 for every end by \$6,000 or less of capital slock, and \$6 for every end by \$6,000 or less of \$6,000 or less

By-Laws.—In addition to the providing for the management of its property, regulation of its affairs and transfer of its stock, the by-laws may provide the time of service and mode of classification of directors, but there shall be an annual election for such number or proportion of directors as may be found upon dividing the properties of the propertie

company.

Wages of employes for all labor and services performed by them within three months next preceding a demand made therefor, not exceeding \$50, are perferred claims over all demands not secured by specific liens on the property of the corporation; payment of wages shall be made on or before the 15th day of each month for the infl amount of all wages entire the property of the corporation; payment of wages shall be made on or before the 15th day of each month for the infl amount of all wages enter the given to emboyes of the reduction of wages by written or printed handballs specifying the class of employes whose wages shall be reduced and the amount of the reduction, posted in a conspicuous place where the employes work or by mailing such notices to each employe.

[KEPORTS AND STATEMENT—Every mining corporation, should

reduced and the amount of the reduction, posted in a conspicuous place where the employes work or by mailing such notices to each employe.

REFORMAND STATEMENT—Every mining corporation shall mad an animal report to the secretary of state on the 1st day and the minimal report to the secretary of state on the 1st day of June 10 minimal report to the secretary of state on the 1st day of June immediately preceding; the amount of its explicit stock and actual value at the time of making the report, cash and state, paid by the corporation in this state on the 1st day of June immediately preceding; the amount of taxes, city, county and state, paid by the corporation in this state for the year last preceding the report, and when and to whom paid. If the corporation is incorporated in any other state, territory or country and doing business or having an office in this state for the year last preceding the leading of the property within this state on the 1st day of July immediately preceding; amount of taxes, city, country and state, paid by the corporation in this state for the year inductively provided the property within this state on the 1st day of July immediately preceding; amount of taxes, city, country and state, paid by the corporation in this state for the year inductively provided the property of the post of the property provided property of the property provided property of the complete property of the property provided property of the composition of the state of pragniced without this state.

FORTHER CORPORATIONS—A foreign corporation must main an office in this state where legal service may be had upon it and where proper books shall be kept to enable it to comply with the constitutional and statutory pro

# LIENS.

LENS.

Persons furnishing materials, machinery or fixtures for any building, erection or improvement on land or for repairs thereat, and the property of the p

lien is filed and must be prosecuted without delay. If the sub-contractor file lien, it is the duty of the contractor to defend the suit thereon, and the owner may withhold the money due the contractor during the pendency of the suit.

### MILLDAMS.

Anyone owning land on one side of a stream and a part of the bed, who desires to erect a mildam, if he cannot agree with the wave of the opposite side, or with the owners of the land with with the flowest of the opposite side, or with the owners of the land with will be flowed, may file a petition in the circuit court of the tomaty in which the mill or dam is to be erected, and such court will Issue a writ directed to the sheriff of the county commanding him to summon a jury to appraise the damages. Notice must also be served on the proprietors of the land at the time such petition is filed. After the payment of damages and expenses, the applicant secures a right to creet his mill or dam.

#### MINING.

WORKING MINES.—Owners or those having a leasehold interest in real estate for ulning purposes shall keep a printed statement of the terms, conditions and requirements mon which said lands may be mined or prospected and the time during which the right to mine or prospected and the time during which the right to mine or prospected and the time during which the right to such or prospected and the time during which the right to mine or prospected thereunder shall condition of the control of the contr

minerals in piace are min, and may are minerals in piace are min, and may make the when this conveyed constitute a separate and distinct inherit.

(CA), MINING INCITIES. Mining for coal is prohibited within the corporate limits of any eity, town or village of one thousand inhabitants or over, unless an indemnity bond of not less thin \$1,000 is given. Notice must be given designating the locality mining, the nature of the mining, and a different property owners must be head to mine under any property in said eith, under penalty of forfeture of rights, and a complete and true diagram of said mines must be lied each term in the circuit court, made and verified by the county surveyor, showing, with reference to the boundaries of such lines, the property of the surveyor of the

every mine employing ten or more men, showing the veins, in-clination of the strata, material deflection in the workings and the boundary lines, and deposit with the clerk of the county court. Mines must have been supported by the in-spector, in the special county of the strategy of the strategy of the spector in the special county of the special county of the special county feet of air per man per minute; bore-holes provided twenty feet in advance of the working places; suitable hoisting apparatus and means for signaling from top to bottom; explosives must be kept in a strong box, except so much as may be needed for immediate use, and kept at least one hundred feet from the place of blasting; owner or operator of the mine shall also keep sufficient supply of prop timber for use.

## MONTANA

Compiled by DAVID B. CARPENTER, Attorney at Law, Rooms 9 and 10, Bailey Block, Helena, Mont.

#### CORPORATIONS

Private charters and special privileges are prohibited by the constitution and all domestic corporations must be formed under the legislation provided for the formation of corporations for industrial and productive purposes.

Three or more persons, but not more than nine, who desire to form a company for the purpose of carrying on any kind of namufacturing, inning, mechanice mining numels; of purchasion of the productive purpose of carrying on any kind of discinctive control of the control of the

solved, and all officers shall hold over till their successors are elected.

The stock of such company shall be deemed personal estate and transferable as prescribed by the by-laws, but no transfer shall be valid, except the beavier the parties, thereto, until it shall be ransfer the beoks of the econyany, showing the lasts of the transfer and designating the partientar shares and the transfer.

The stockholders shall be jointly and severally liable to the redditors of the company to the amount of their unpaid stock until the whole amount subscribed for shall have been paid in. The company may issue stock in payment of purchase of mines, manufactories and other property memory of the company to the amount of their unpaid stock and the made thereon which all the property memory of the company of the compan

minished. The trustees also become jointly and severally liable to the redditors if they shall declare and pay any dividends when the company is insolvent, or the payment of which will cause the company to become insolvent or diminish the annual of the capital stock, and said liability continues as long as they remain

in office, provided that any trustee may escape such liability by filing a certificate of his objection to such payment of a dividend with the clerk of the company and with the county clerk and recorder at any time before its payment.

No loan can be made to a stockholder, and, if made, the officer so making or consenting thereto shall be liable jointly and severally to the extent of the loan and interest, and for all the debts of the company contracted before the repayment of the loan. Any false notice, report or certificate heretofore named creates the same liability upon the trustees. It he capital stock issued at a meeting held for that purpose, after a notice pablished six weeks and a copy mailed to each stockholder, to increase or diminish the capital stock or to extend or change its business or to change its constitution, at which meeting stockholders may appear in person or by proxy.

person or by proxy.

If the indebtedness of the company ever exceed the capital stock the trustees are personally liable to the creditors for

stock the tristees are personary mane to the creations for the excess.

Trustees must cause a book to be kept which shall be open to the inspection of stockholders and creditors or their representa-tives, showing in alphabetical order the names of the stockholders, their residences, the number of shares held by each and when they become the owners thereof, and the amount of stock actually paid in, and creditors and their representatives are entitled to make extracts therefrom, under penalty for failure to so keep The owners of fifteen ner cent of the capital stock by a written

sud nook.

Side nook.

The consider of fifteen per cent, of the capital stock by a written request on the treasurer may demand and obtain a full statement of the company's affairs on twenty days' notice.

Corporations so organized have power:

1. To have succession in the corporate name for the period imitted in the certificate.

To sue and be sued, complain and defend in any court of law

or equity.

To make and use a common seal and alter the same at pleasure

pleasure.
4. To hold, purchase and convey such real and personal estate as the purposes of the corporation may require, 5. To appoint such subordinate officers and agents as the business of the corporation shall require, and to allow them suitable compensation.
6. To make by-laws not inconsistent with any existing laws for the management of its property and the regulation of its transfer of its stock.
6. The first property and the regulation of its management of the property and the regulation of its consistent with the property and the regulation of its management of the property and the regulation of its consistency of the property and the regulation of its property and its

domain.

domain.

The trustees of such corporation have no power to sell, lease, mortgage or otherwise dispose of mining ground, quartz units, smelters, concentrators or reduction works the property of the corporation, except by calling a meeting (in the manner indicated to increase or diminish the capital stock) and after submitting each parcel or piece of said property separately to the meeting so called, and being authorized by a vote of at least three-fourths of all the shares of stock of the corporation, and which vote must be carried by at least two-thirds of all the shares

which vote must be earried by at least two-thirds of all the shares of the corporation.

Corporations so formed may make their stock assessable or non-assessable by so designating in their certificate of incorporation in addition to the other facts required to be stated.

No assessment shall exceed five per cent, of the amount of capital stock named in the evertified of incorporation and monoid and properties of the corporation and monoid of the corporation and non-designation of the corporation and non-designation of the corporation and non-designation of the corporation of the corporation and non-designation of the corporation and non-designation of the corporation of the corporation and non-designation of the corporation o

each stockholder. After stock becomes delinquent, notice must be published (in After stock becomes delinquent, notice must be published (in a stantory form) for ten days if in a daily paper and two weeks if in a weekly paper, describing each certificate delinquent and the amount due thereon, the first publication being at least fitten days prior to the day of sale. The corporation then has jurisdiction to sell and give a complete title to the stock sold, but shall sell only sufficient to pay the assessment and costs of sale. The delinquent stock must be sold at public auction to the highest bidder for cash and the person offering to take the least number of shares and pay the assessment and costs will be deemed the highest bidder. If no one bids the amount of assessment and costs the company.

deferred the highest binder. The deferred the highest binder descessment and costs the company then has the privilege of bilding it in for the assessment and costs and it then becomes treasury stock, subject to the same disposition as if never issued. The delinquent assessment and costs are thereby satisfied. Corporations may become disincorporated by presenting a pertition to the judge of the distinct court under the earlier than the period of the pulge of the by the court under the earlier than to be a subject to the pulge of the by the period of the pulge of the by the presenting a pertition to the judge of the by the presenting a pertition to the judge of the by the presenting and the same period of the pulge of the pul

country, state or territory shall have or be allowed to exercise or enjoy within this state any greater rights or privileges than those possessed or enjoyed by corporations of the same or similar character created under the laws of the state. Foreign corporations or joint-stoke companies are permitted to do business by filing with the secretary of state and in the country clerk and recorder's office of the country wherein they intend to operate a sworn copy of their charter or certificate of incorporation, and a verified statement attested by a majority of the board of directors showing:

and the control of the control of the principal office or place of business without the state, and if it have any place of business or principal office within this state the location thereof.

The amount of its capital stock,

The amount of its capital stock paid in any other way and in what.

4. The amount of the assets of the incorporation and of what the assets consist, with the actual cash value thereof.

5. The amount of the assets of the incorporation and of what the assets consist, with the actual cash value thereof.

6. The liabilities of such incorporations, and if any of its indebtedness is secured and how, and upon what property. This said statement must also be verified by the oath of the president and secretary of such incorporation.

Such incorporation or joint-stock company must also file at the same time and in the same offices a certificate under the seal of the corporation and the signature of the president, vice-president or other acting head, and its secretary if there be one, serricularly states the cupon all causes of action arising against it in this state, and that service of process may be made upon some person who is a citizen of this state, whose mane and place of residence shall be designated in said certificate, and that process when so served upon such agent shall be taken, deemed and held to be as valid to all intents and purposes as if served upon the company in the state or territory under the laws of which it is organized.

The written consent of the person so designated to act as such

organized:

an experience of the person so designated to act as such agent shall also be filed in the same manner.

A penalty of sto per day is provided for failure to comply with this law, and all acts and contracts of its agents are declared to be void as to the corporation,

The courts hold that a foreign corporation can protect its claims

by litigation notwithstanding.

Every such corporation must annually within twenty days from the 1st of September make a report which shall contain the same information as the original statement, and file the same in the same offices.

Every mechanic, builder, lumberman, artisan, workman, laborer or other person, association, partnership or corporation that shall do or perform any work and labor upon or furnish any material, machinery or fixture for any building, erection, bridge, flume, canal, ditch, mining claim, quartz lode, city or town lot or lost, ranch, radiroad, ledgraph, felephone or electric light line, to the control of the provisions of the statute shall have for his work or labor done, or material, machinery or fixtures furnished, a lien thereon and therefor.

To comply with the provision of the statute, he must within forty-five days after the completion of the work file in the office of the county of the locus of the property a just and true account of the amount due or owing to him after allowing all credits, and containing a correct description of the property to be charged, verified by his affaivalt. The material was furnished or work done has in the property upon which the improvements are made to the extent of one acre in discident of the city limits, and to the whole to if within said limits. All liens filed after said thirty days of the filing of the first lien shall be liens of the first class and share pro rata after the first-class liens are saifed. All liens filed after said thirty days and within sixty days shall be liens of the first-class and share pro rata after the first-class liens are saifed.

An lens for material furnished and work and abor done shall have priority to and precedence over any mortgage, inclumbrance or other lien made subsequent to the commencement of the work on any contract for the erection of such building, structure or other improvement.

other Improvement.

Every person, including guardians of minors, married women and any company, association or corporation, not tenants or lessees, for whose use, benefit or enjoyment any building, structure or improvement, as heretofore inentioned, shall be constructed, repaired or altered, shall be deemed the owner or large of the property of the desired of the owner of the commenced within one year from the filing of said len.

An implied contract is a sufficient contract with the owner on the contractors have a lien, but must notify the owner of the particular value of the materials at or previous to the time of furtural and the lien is direct.

A homestead is subject to a lien for material turnished as well

homestead is subject to a lien for material furnished as well

A homest as for labor

A reasonable attorney's fee is recoverable as costs against defendants in foreclosure of liens for material or labor.

Ordinance I to the state constitution provides that "the people inhabiting the proposed state of Montana do agree and declare

that they forever disclaim all right and title to the unappropriated public lands lying within the boundaries thereof, which includes all mineral lands, and that the same shall be and remain subject to the disposition of the United States, and that lands belonging to citizens of the United States residing without the state of Montana shall never be taxed at a higher rate than the mads belonging to the residents thereof. So, provides that valiens and so the constitution. Article as the constitution, Article as me right as citizens to acquire, surclasse, possess, enjoy, convey, transmit and inherit mines and mining property and milling, reduction, concentrating and other works and read property necessary for or connected with the business of mining and treating ores and minerals, provided that nothing herein contained shall be construct to infringe upon the authority of the United States to provide for the sale or dissenting of first interest of the general laws the possessory right to mining property (unpatented) and any right to possess, occupy or enjoy any portion of the general laws the possessory right to the United States, shall be respected in law and in equity in all the courts and tribunals of the state as a chattel real and possessing the character of real estim.

State of the control of the public domain, as between every person, association, corporation or power, except the government of the United States, shall be respected in law and in equity in all the courts and tribunals of the state as a chattel real and possessing the character of real estim.

State of the proper pain the United States, shall be taxed at the price pain the United States that "all mines made in the united States, shall be used as property and be taxed at the value for other than mining purposes and the state as a chattel real and possessing the character of real of the property of the public done of the public done is the price pain the United States therefor, unless the surface ground, or some part thereof, of such mine or cla

for patent.

Quartz lode locations can be made only after the discovery on a lead, lode or ledge of a veln or crevice of quartz or ore with at least one well-defined wall. Said locations cannot exceed fitteen lundred feet along the lead or lode in length and three hundred feet on each side of the center the reof instance where the contract of the c

4. At whose instance and request sain ware was com-provements made.

5. The actual amount paid for said labor and hipprovements, and by whom paid, when the same was not done by the owner or owners of said quartz claim.

The adilaxit so filed is made prima facle evidence of the facts

The adilabel strong of the last state of the content and the purpose of discovery and mining shall record the same, specifying the place of commencement and the course thereof, with the names of the parties interested therein. A fundle claimant has a right only to such vehis or lodes as may be discovered in his tunnel within three thousand feet from the face thereof, and that has to such vehis or lodes the right extends along them for affect hundred feet and on each side three hundred feet. That the line of the tunnel is a line the kinth of a tunnel was a right to be out of the tunnel, and that this persons and the kinth of a tunnel have a right to be out of the fine of the tunnel, provided they do not necetion the line itself. Such locations are, however, at the risk of the locators, for in the event of the discovery of their veins in the tunnel, all these locations become invalid if they are within three hundred feet and either side of the line of the tunnel and within fifteen hundred feet along the line of any locations that may be made of their veins by the tunnel is entitled to a right of way through any and all leads added that all quartz, ore or minimal to practice by said tunnel of more lady, lodes or ledges belonging to partles other than the owners of said tunnel sentities that may be content of the said of the said owner shall within a year from the date of pre-empting his claim run the distance of one hundred feet on said tunnel.

Any person who shall so pre-empt any tunnel claim shall be entitled to three hundred feet on each side of the mouth of said tunnel for the purpose of a quartz or ore yard.

Under the incorporation laws of the state a corporation formed for the purpose of excavating a tunnel shall have and hold eleven hundred feet on each side of the tunnel on all lodes discovered by them while excavating said tunnel, and through all lodes dis-

covered previous to the commencement of said tunnel they shall have the right of way.

RIGHT OF WAY.—The proprietors of owners of mining claims, whether patients after the laws of the United States or held under the laws of the United States or held under the distance of the state, have a right of way over an across the lands or mining claims (patient) of others, whenever any mine or mining claim is so situated that it cannot be conveniently worked without a road thereto, or a ditch or a cut to convey the water therefrom, or without a time to carry water and tailings therefrom, or without a shaft or a tunnel thereto, upon the payment of such damages as shall be assessed by a committee of three who are appointed by the court to assess the damages resulting from such right or privilege.

a shaft or a tunnel thereto, upon the payment of such damages as shaft be assessed by a committee of three who are appointed by the court to assesse the damages resulting from such right or privilege.

MILLS of the such as the such as

injuria.

A patent to a mining claim being based upon an adjudication of the land department of the United States as to patentee's right thereto, and such adjudication having the effect of a final judgment, is as a rule conclusive proof of discovery, marking boundaries and the performance of all the requirements necessary to constitute a valid location.

## STONE QUARRIES.

Stone quarries are taken up under the laws relating to placer mines and patents obtained by a compliance therewith.

# NEBRASKA

Compiled by Stevens, Love & Cochran, Attorneys at Law, Newman Block, Lincoln, Neb.

### CORPORATIONS.

Any number of persons may incorporate for the transaction of any lawful business. Corporations have power to have successionly corporate name; to sue and be sued; to make and use a configurate seal and after the same at pleasure; to hold personal extite and such real extate as may be necessary for the business of the corporation; to render the interest of the stockholders transferable; to appoint such officers and agents as the business shall require; to make by-laws not inconsistent with any existing law.

naw.
Articles of incorporation must be adopted and recorded in the office of the county elerk before commencing business, and if the corporation is organized for the purpose of constructing internal improvements, the articles shall be filed also with the secretary of

stric. Within four months from the time of filing such articles in the cherk's office, notice of incorporation shall be published stating the corporate name, its principal place of business, nature of business, amount of the capital stock and the time and condition on which it is paid, the time of the commencement and the termination of business, the highest amount of indebtedment allowed, which in no case shall exceed two-threat to the state of the commence of the properties of the compared affairs are to be manner of the by-daws and names of officers appended thereto must be posted in some conspicuous place at places of business.

Any amendment to the articles of incorporation must be made with the same formalities as the original articles. The statute requires annual notice to be published in any news-paper of general circulation in the county or counties in which the business is transacted, showing the amount of existing debts, which notice shall be signed by the president and a majority of the director.

which notice shall be signed by the president and a majority of the directors.

Upon a failure to comply substantially with the statutory pro-visions, all the stockholders of the corporation shall be jointly and severally liable for all the debts of the corporation then ex-stockholders are liable for the amount of their unpaid sub-scription, and stockholders in banks are liable for their unpaid sub-subscription and an additional amount equal to their subscription. Service of legal process may be had upon the president, char-man of the board of directors or trustees or other chief officers of a corporation, or, if its chief officer is not found in the country, the adversaria can be former, for a uniquely agent, of the non-est-usual place of lussiness.

Actions may be brought against railroad companies in any

usual place of business.

Actions may be brought against railroad companies in any county through which their times run.

Actions may be brought against an insurance company in any county in which there is an agency thereof. Service may be upon the chief officer of such agency.

Foreign corporations may be served by publication, or by delivering copy of process to managing agent. The property of foreign corporations is liable to seizure by attachment without

bond.

Any foreign corporation may become a body corporate of this state by filing with the secretary of state a copy of its charter or articles of association and a certified copy of the resolution adopted by its board of directors accepting the provisions of the statutes of the state.

Conveyances of real estate are by deed scaled with corporate scal, signed by the president or presiding officer of the board of

directors of the corporation.

#### LIENS

Liens for labor, material, machinery and fixtures are allowed upon any house, mill, manufacture, building or appartenances and the lot of land upon which the same shall stand.

The lien is secured by filing with the register of deeds a sworn statement of the lators of the labor and material furnished, with a description of the land.

The lien is secured by filing with the register of deeds a sworn statement of the land.

He may be a supported by the owner, laborers and material-men may proceed until the building is helosed.

Where the owner of real estate enters into a contract of sale in which it is agreed as part of the consideration that the purchaser shall erect certain buildings, liens for labor and materials upon such buildings are superior to vender's lien for purchase price.

Lien is enforced by action in equity in the same manner as forcelosure of mortgauges; forcelosure must be commenced within two years from the filing of the lien.

### MINING.

The statutes provide that when a vein of coal shall be dis-covered not less than twenty-six inches in depth, of sufficient expacity to pay to mine, and within paying distance from the surface, the state of Nebrusaka shall pay a reward of \$4,000 to the owner or owners thereof. A like reward of \$2,000 is provided for the discovery of a vein of good from ore one foot thick.

# NEVADA

Compiled by Geo, S. Sawyer, Attorney at Law, Pioche, Nev,

## CORPORATIONS.

CORPORATIONS.

Corporations may be formed for any purpose, except to issue notes to circulate as money. Three or more persons may form a corporation by signing and acknowledging a certificate of incorporation and having the same recorded with the clerk of the county in which the principal place of business is to be located, and also filing a copy thereof, certified under the hand of such clerk and the sent of the court of such county, with the secretary tion, its object, the amount of the capital stock and number of shares, its term of existence and their names rot less than three who shall manage its affairs for the first six months, and the name of its principal place of business, referring to town and county.

The corporate powers shall be exercised by a board of trustees, and test shan three it number, of the sockholders, and who shall be elected annually by the stockholders and trustees are the corporation may purchase dellinquent stock, which shall be under the control of the remaining stockholders, and a majority of the remaining stock holders is not estable to the analysis of the stockholders for the purpose of removing any or all of the officers of such corporation, and at such meeting any officer may be removed and a new one elected.

Shares are personal estate and are transferable by indorsement and delivery, but such transfer is not valid, except as to the parties thereto, until entered on the books of the corporation. No dividends can be declared except upon net profits. The debts must not exceed the amount of capital stock paid in, and the trustees who allow any excess become personally liable. A corporation may dissolve itself by petition to and proceedings before the district judge of the district where its office is located.

Every person who performs labor or furnishes materials of the value of \$5 has a lien upon the property upon which he has performed the work or for which he has harmished the naterial, together with enough land around the same for convenient use. This applies to work labor dry terminal to the same for each superior of the same for each superior with the same for each superior same superior with the same for each superior incumbrances of which the lien-holder had no notice, actual or constructive.

prior incumbrances of which the Ben-Bodder had no notice, actual or constructive.
Original contractors must file their claims of lien with the county recorder within sixty days from the completion of the work, and all other persons within thirty days, and suffs upon such claims, to enforce the Bens, must be commenced in proper court within six months from the commenced of Biling, proper court within six months from the desided and preferred as follows: First, all persons other than the original and preferred contractors; second, the sub-contractors; third, the contractors.

#### MINING.

MINING.

Mining claims are located and held by virtue of the laws of the United States and local regulations thereby authorized: There is no state regulation in this respect, except (1) in case of praceedings against delinquent co-owners under the United States statutes. The moving party must, within thirty days the county recorder a copy of the notice given, with an affidavit of service, if personal, or an affidavit of publication, by the publisher or his clerk, when published, together with his own affidavit that the parties proceeded against have not paid their share of expenditure, or performed their share of labor. Such record or a copy thereof is prima facie evidence of the facts therein stated. The result of the state of the control of the state of the control of the facts stated therein.

The right of emiment domain may be exercised in favor of mining, milling, snellting or other reduction of ores.

There or more persons, owning a majority interest in any mining claim, may form themselves into an association or corporation for the purpose of working the same, and the officer operation, for his pro rata share of the expense of working the same, without previous notice or demand.

Mining corporations may be compelled to allow stockholders to visit and examine the mines. Mining corporations may consolidate. In any mining district embracing a county seat, the county recorder, shall be exploited in the county recorder shall be expended in the county recorder.

# NEW HAMPSHIRE

Compiled by E. S. & H. A. CUTTER, Attorneys at Law, Nashua, New Hampshire.

Under the general carporation laws a company can be formed to carry our any lawful business except banking, railroid and life insurance business. Such a corporation can operate mines in foreign states. Every corporation can operate mines in foreign states. Every corporation can operate mines in foreign states. Every corporation organized under the laws of this state which does not carry on its business in New Hampshire shall pay a charter fee on the largest amount of the authorized capital, as follows: One per cent, on the first Shop,000, one-half of one per cent, on all above that amount and under \$1,00,000, one-half of one per cent, on all its capital above \$1,000,000, and increasing the companion of the state of the companion of the state, the capital shall be a resident of the state, for each and at part.

LAPILITY, Every stockholder shall be label for all the debts of the corporation until the whole amount of the capital shall have been paid in and a sworn statement of such fact recorded in the office of the town clerk where the corporation is located.

Aside from the common-law liens and those of taxes and mort-gages, the statutes give a lien to boarding-house keepers on the effects of their guests, to the keepers of horses, cattle, etc., and

to laborers on vessels and buildings. The last two liens extend for a period of ninety days, and may be secured by attachment. A lien-holder on personal property may sell the same at public anction, on fourteen days notice by posting and personal service when obtainable, and a return of such sale shall be made to the clerk of the fawn.

clerk of the town

Repairs to dams and thrues may be made by joint owners in proportion to the several interests, upon petition to the selectmen of the towns where the dam is located. The petition must state material facts, be served personally, or by publication it case of absent owners, fourteen days before the day of hearing. The selectmen shall determine the necessity for treat sylventination of the premises and by testimony. When the premises are situated in two or more towns the selectmen of all the towns shall have purisilection.

A dam may be maintained upon a non-navigable stream which

shall have inrisideton.

A discontinuous unions the selectmen of all the towns and the many be maintained upon a non-navigable stream which did the owner's hand and all lands which the owners thereof allow to be overflowed. The supreme court has jurisoletion over disinterested persons are superinted from A counterested persons are superinted from the question of damages and all other court judgment may be had as in other preceding the court independent may be had as in other preceding. The court may subsequently inquire into the material statement is the property of the report be set aside for any irregularity, and assess damages, to which lifty per cent, must be added, and judgment is subsequently and the set of the report be set aside for any irregularity, and assess damages, to which lifty per cent, must be added, and judgment issues accordingly. A jury triat may be had upon the electron of either party.

### MINING.

There are no special laws in regard to mining in this state.

# NEW JERSEY

Compiled by Lowthorf & Oliphant, Attorneys at Law. Trenton, N. J.

# CORPORATIONS

FORMATION. Corporations are created in this state under general laws by making, rewording and tiling certificates to that effect in the manner properties by the statute. Corporations for mining and the namer properties are formed under the statute of the state of t

ment must be used in the other of the secretary of state. This done, the corporation begins its existence, and may be organized at once, the corporation thus formed has to all substantial hierals the same powers as an individual to make contractivation the reasonable scope of the objects specified of interesticate of organization, and to execute and cancer, and may early on any legitimate business within our least real estate, and may early on any legitimate business within operation of a canal or of a ratical same and the second of the condomn lands. The company may be a second of the condomn lands as a common sacret business is vested in a board of directors, the second of the condomn lands. The company may appoint such officers as it desires, and it is the duty of the part of the annually with the secretary of states withflowers, against the same time of the directory of states withflowers, against the following of the directory appointment, their terms of office, and the school of each, and also to designate the principal purpose the annual with the scretary appointment, their terms of office, and the school of each, and also to designate the principal office of the company within the state; and it also requires the stock and transfer books of the company to be kept at that office. The ordinary uniforms of the contract of the company of the principal office of the company within the state; and it also requires the stock and transfer books of the company to be kept at that office. The ordinary uniforms of the company to be kept and the school of the company with the state; and it also requires the cut of the company with the state; and it also requires the constitution and laws of the state and of the United States. The constitution and laws of the state and of the United States. The constitution and laws of the state and of the United States.

equital stack, duly proved by officers of the corporation and filed in the office of the secretary of state.

CAPTAL STOCK AND PERSONAL LIABILITY OF STOCKHOLDERS AND DIRECTORS.—Stock may be bested other for money or for property purchases—stock may be be send other for money or for property purchased, which is six and the secretary of the social character through all transfers.—Stock is send for property purchased; and it always rectains to original character through all transfers.—Stock sessable unservine the social character through all transfers.—Stock sessable unservine the social character through all transfers.—Stock sessable unservine the corporation and the property purchased is considered to the corporation of the property for the property purchased he not full paid, the holder forced, in capture of the corporation means the season of the corporation of of the corporat

#### LIENS.

Every building and the lot or fract of ground on which it stands is liable to the payment of any debt due any person for labor done or materials furnished for the construction of safety of the construction of safety belief to the construction of safety of the construction of the building. Individual of the construction of the building. Individual of the construction of the building. Individual of the construction of the building. In a building be erected on lands of a married woman file in the county clerk's office her dissent to the crection of the building. It a building be erected or repaired without a written contract, it is liable to material-men and laborers as lienors alike. If it is expected or repaired without a written contract, it is liable to material-men and laborers as lienors alike. If it is expected of the contract in writing, and the building and lands are liable to the len of the contractor alone; the contract the contractor deferves to the owner a release of lease executed by all material-men, workmen and laborers who have furnished material for and have worked upon the building, releasing the building and lands from their claims. Such release to be binding must contain an affidavit by the contractor, stating that no person not named in the release has any lien upon the building releasing the building of make for work done or materials furnished. Payment that no person not named in the release has any lien upon the building of ands for work done or materials furnished, and without actual notice of outstanding claims, clears the building releasing the building of lease the building of the lease has an

#### MINING.

MINING.

INSPECTION.—The state commissioner of mines is empowered to visit and inspect all mines in the state and to report their condition to the governor of the state annually, with such recommendations as the commissioner shall deem advisable, of the lives of the employes in the mine are provided, and if such protections be neglected by the proprietor of the mines, the commissioner is empowered to give the owner or lessee notice in writing stating such neglect; and mless such deficiency shall be immediately remedied the owner or lessee becomes criminally lable in case of death or accident to the employe through such deficiency of protection. Upon complaint in writing made by any employe in a mine that such mine is dangerous to the ives of those employed therein, the commissioner is required to examine plaint be just, he is required to notify the owner or lessee in writing of the fact, and may in his discretion order such mine closed mill he shall have issued his certificate that such danger has been remedied. Any owner or lessee of a mine refusing to comply with the demands of the last-mentioned notice forfeits the sum of \$1,000 as a penalty therefor.

# NEW MEXICO

Compiled by S. M. ASHENFELTER, Attorney at Law, Deming, N. Mex.

# CORPORATIONS.

CORPORATIONS.

Corporations for mining, manufacturing or other industrial pursuits, or for making and furnishing abstracts of fille to real estate, or for insuring filles, or the construction or operation of railroads, wagon roads, irrigation durches and the econuzation railroads, wagon roads, irrigation durches and the econuzation before the residual of the construction of the construction of the residual edges, seminaries, churches, libraries, or any benevotent, charitaleges, seminaries, churches, libraries, or any benevotent fing forth the fill dathes of states of the territorial secretary a statement in writing, signed and acknowledged by three or more persons, setting forth the full dathes of such persons, the corporate mame, the objects of the company, the capital stock and number of shares, time of exist company, the capital stock and number of shares, time of exist company, the capital stock and number of shares, time of exist company in the control of the same of the control of the position of successions. Directors must be stockholders, a majority of them edificates of the United States and one-third of, them residence of the control of the capital stock of the position of successors.

Directors control the calling in of amounts subscribed for the control of the calling in of amounts subscribed for sock. No dividents permitted except from surplus profits, breed on the long of the profits of the profits of the capital stock. Trus-

tees and persons holding pledged stock not liable for assessment. Notices of assessment and of stockholders' meetings must be published in a newspaper four weeks.

Corporations formed in contiguous states to construct telegraph lines, railroads or wagon roads may extend into New Mexico, with full corporate rights, by filing a copy of their original certificate with the territorial secretary and the probate clerk of the county in which they are to operate. Corporate franchise of name is exclusive; also of immediate purpose, except and the proposed of the county in which they are to operate. Corporate franchise of name is exclusive; also of immediate purpose, except and the county in which they propose to do business a copy of the charter, or, if incorporate under a general law, a copy of its articles and the general incorporation have authorizing same, and a certificate, signed by the president and secretary, duly acknowledged, agent there residing, inport whom service of process may be had, agent there residing, inport whom service of process may be had, agent there residing, inport whom service of process may be had, agent there residing, the proportion of a largoads, granting exemptions and privileges. Boards of county commissioners may grant franchises for the incorporation of toll wagon roads, bridges and terries. There is also a special law for the incorporation of insurance companies, which places particular restrictions upon the management therefore.

Corporations must organize and commence transaction of business within two years from date of filing certificate, or their corporate powers cease.

Every person furnishing materials to be used in the construc-tion, afteration or repair of any mining claim, building, wharf, bridge, diltch, flume, tumel, tence, machinery, railroad, wagon road or aqueduct or any other structure has a lien upon the same for the materials furnished, whether so furnished at the instance of the owner of the improvement or his agent; and every contractor, sub-contractor, architect, builder or other person hav-ing charge, in whole or in part, is held to be the agent of the owner. All land necessary to proper use and enjoyment of the improvement is subject to the lien, and the lien is preferred to the wine materials were commenced to be furnished or which was unrecorded at such time, unless the material-man had actual notice.

notice.
An original contractor within ninety days, and all others within sixty days after completion of the improvement, must the with the county recorder of the county in which the property or a part thereof is sinate a statement of demands, with the name of the person to whom he furnished the materials, and a statement of the terms, time given and conditions of his contract, and also a description of the property to be charged with the lien. This statement must be verified by oath of materials aman or some other person. If against two or more buildings or improvements, the claimant must designate amount due upon each. All claims of lien fall unless proceedings to enforce the same be commenced in proper court within one year after statement filed, or, if a credit be given, six months after expiration of such credit; but no agreement to give credit shall continue a lien in force more than two years.

such credit; but no agreement to give credit shan continue a neu-in force more than two years.

The rank of liens is: First, all other persons than the orig-inal contractors and sub-contractors; second, the sub-contractors; third, the original contractors. Any number of lien claimants may join in the same action. Materials furnished are not sub-ject to outside attachment, execution or other process. The tak-ing of collateral security defeats a right of hen.

MINING.

Location must be distinctly marked on the ground, so that its boundaries may be readily traced. Written notice of location must be posted at some conspienous place on the claim, and must contain a description thereof by reference to some natural object or permanent monument. A copy of this notice must be recorded in country clerk's office within three months after date of location. The value of a day's labor is fixed at \$4, or eight hours of labor attacks to must solk a discovery shaft, ten feet deep from lowest part of rim at surface, and expose mineral in place, before filing location notice, and within ninety days from date of location. Surface boundaries must be fixed by four substantial posts or monuments at each corner, all marked to indicate direction.

Where mine is under lien, the lien-holder has right of entry to stell assessment work is owner neglects same, and a penality attaches for any obstruction of that right. The cost of such assessment work is made, a Mactocholder in a mining corporation has right of entry to mine, and inspection of work, under plenality to officer or agent reinsing to allow such entry. Hirty days' notice required to terminate an oral mining lease-except when damage is being done to property. Mine-owners have right of eminent domain for tranway or railway to transport ore to reduction-workers must keep a detailed record of all oral particular properties. Ore purchasers and reducers must keep a detailed record of all oral particular properties of the second of the such contents and mallelous statement as to title, or knowingly making lase claim or setting up a false lein, with a view to defeating

made felonies. False and malicious statement as to title, or knowingly making false elaim or setting up a false lien, with a view to defeating sale of mining property, are felonies. It is a misdemeanor to tear down or change monuments, or remove or after notices. REGILATION OF COAL MINES.—The owner or agent must make a map of all workings, on a seale of one hundred feet to the inch, which shall be kept posted up at the office and the mine, open to public hispection.

Two shafts, slopes or outlets, separated by natural strata one, hundred and fifty feet in breadth, with distinct means of ingress and egress, always available to employes, are required in each

mine. Ventilation must be adequate, not less than fifty-five cubic feet per second of pure air for every litty men, circulated through the lace of every working place, so that the mine shall be free from danger to the health and lives of employes; and every nihe must have a competent inside overseer, whose special duty it is to keep watch over the ventilation, pulmps, tanks and timbering, superinsends specially is remarked and the property of the lack light property is property of the property of the property of the property of the property is remarked by the property is remarked to see that the holstling machinery is kept in repair and ready for constant the

The word "owner" applies to lesses. The overseer is liable to criminal prosecution for tailure or neglect under the law, and, in case of death of any person through such neglect, is to be deemed guilty of manistaughter. Thorough boiler inspection is required once in three months. The act does not apply to the opening of

once in three months. The act does not apply to the opening of new coal mines.

Suitable scales must be provided at each coal mine, where miners are paid by weight, with weigher sworn to accuracy and spicuously posted at place of weighting. Record of each miner is to be separate and open to his inspection and the inspection of all interested in the output. Miners may furnish a check-weighman with full right of access and examination, who must also make oath, to be conspicuously posted. Any person guilty of incorrect weighing or recording, or being accessory thereto, is criminally the provisions of the art regulating weighing, is table to criminal prosecution. cention.

prosecution.

Convicts may not be employed in New Mexico coal mines

# NEW YORK

Compiled by HASTINGS & GLEASON, Attorneys at Law, 265 Broadway, New York.

#### CORPORATIONS

CORPORATIONS.

Corporations may be formed in the state of New York for the purpose of conducting any lawful business. In 1880 various special corporation have were repeated and a general act passed providing that five or more persons, a majority of whom shall be providing that five or more persons, a majority of whom shall be the purpose of carrying on any lawful business, by making, signing, acknowledging and filling a certificate which shall contain:

1. The name of the proposed corporation.

2. The object for which it is to be formed, including the nature and locality of its business.

3. The amount and description of the capital stock shall contain one hundred dollars (sign) less than five (\$5) nor more than one hundred dollars (sign).

5. The becation of its principal business office.

6. Its duration, which shall not exceed lifty years.

7. The number of its directors, not less than five, nor more than thirteen, who shall each be a stockholder, having at least five sharres of stock.

8. The mans and postoline addresses of the directors for the

The names and postoffice addresses of the directors for the

8. The hames and postollice addresses of the directors for the lifst year.
9. The postollice addresses of the subscribers and a statement of the number of shares of stock which each agrees to take in the oreprostion, the aggregate of which subscriptions per cent, of which must be paid in cash to the directors maned in the certificate. There shall be indorsed thereon or annexed thereto, as a part thereof, the additavit of at least three of the directors, that the requisite amount of stock has been subscribed, and the prescribed percentage thereof paid in eash to the directors.
Every certificate of incommendation shall be fitted in the office of the principal place of business of the corporation is, or is to be posted by the director of the county where the principal place of business of the corporation is, or is to be made before filing and recording such certificate must be made before filing, and no corporation shall exercise any corporate powers or privileges until such taxes and fees have been paid.

corporate powers or privileges until such taxes and fees have been paid.

The tax here specified is one-eighth of one per cent, upon the capital stock of the company to be incorporated, and the record-ing fees in addition to this amount to about 85.

The amount of explats stock may be increased or decreased, The amount of explats stock may be increased or decreased, the amount of explats stock may be increased or decreased, or among of the business after it is incorporated may be changed. No corporation shall engage in the transaction or naminging of the business after it is incorporated, and ten per cent, thereof shall have been paid in eash, nor until there shall have been adopted by-laws of the corporation and shall have been ided in the office where its certificates of incorporation were filled a further certificate, excented and acknowledged by the president and treasurer of the board of directors, to the effect that one-half of the capital stock of the corporation has been paid in eash, and that the by-laws of the corporation have been adopted, and a copy of the subscription list to the stock of the corporation and a copy of the by-laws shall be annexed to such certificate, and the same shall be verified by the oath of the president and treasurer to the effect that the statements con-tained in it are true.

The by-laws of the corporation shall be adopted at a meeting of stockholders, who have subscribed in the aggregate at least one-half of the capital stock, and paid in ten per cent, of such such as the stock of the capital stock, and paid in ten per cent, of such such as the stock of the stock of the stockholder of t

The manner of filling vacancies among directors and

3. The time and place of the annual meeting.
4. The manner of calling and holding special meetings of the

4. The manner of calling and holding special meetings of the stockholders.

5. The number of stockholders who shall attend, either in person or by proxy, in order to constitute a quorum.

6. The officers of the corporation, always including a pesident and secretary, and a treasurer, the manner of the freesters, and a treasurer, the manner of the freesters, and a treasurer, the manner of the freesters, and an analysis of the president and secretary, shall have been filed in the offices where the original take effect until a copy thereof, verified by the president and secretary, shall have been filed in the offices where the original excitation shall be paid in, one-half within a year, and the other half within two years from its half within a year, and the other half within two years from its half within thirty days after the payment of the last installment of capital stock, are required to make a certificate of the capital stock so paid in, which shall be signed and sworm to by a majority of the directors, and filed in the offices where its certificates of the corporation. In other corporations has been formed as full liability companies, in which case the stockholders are only liable for the debts of the company until the stock is full paid and the certificate has been filed. This lability is equal to Corporations are required within twenty days after the stoll January in each and every year to make a report which sholl January in each and every year to make a report which sholl

paid and the certificate has been filed. This liability is equal to the amount of steek held.

Corporations are required within tworty days, after the tet of Corporations are required within tworty days, after the tet of Corporations are required with the same of the amount of earlied steek, portion actually paid, the amount and general condition of its existing assets and debts, and of its receipts and expenditures during the year, the names of its then stockholders, and the dividends, if any, declared since its last report. This report simil be signed by the president and a majority of its directors, and verified by the oath of the presistant, and in the office of the county elerk of the county where its principal place of business is located.

I such report is not so made and so filed, all the directors of the corporation shall jointly and severally be personally liable for all the debts of the corporation the existing and all contracted before such report shall be made.

So the state of New York may acquire such real estate in the state of New York may acquire such real estate in the state of New York may acquire such real estate in the state is may be necessary for its corporate purposes in the transaction of its business within the state, and convey the same by deed or otherwise, in the same manner as a domestic corporation.

Foreign corporations may also make any contracts in the state

rough corporations may also make any contracts in the state the same as a domestic corporation. The courts, however, have no jurisdiction in actions brought against foreign corporations, unless the plaintiff is a resident of New York, or the contract or cause of action arose in the state, or is brought to affect property situated in the state.

Any person who shall breather perform any labor in or about the sinking, drilling or completing of any oil well, or any well sunk or drilled for oil or other volatile or inhieral substance, within the state of New York, or in sinking or drilling any water well, sank or drilled for the purpose of drilling or operating any such oil well or other well as aforesaid, or who shall ereet, build or furnish any tank or other receptacle for oil, gas or water, such as the state of New Jank or other receptacle for oil, gas or water, such as the state of the property of the purposes aforesaid or who little grown and the state of the purpose storesay of the purposes aforesaid, each tank or other such cole, packers or other appartenances or appliances to any such well as aforesaid, with the consent of the owner, being such well as aforesaid, with the consent of the owner, being such owner as in this section hereinafter described, shall, on liting with the county clerk of the county in which the property is situated, upon notice, have a lies for the value of such labor situated, upon notice, have a lies for the value of such labor and upon such well as aforesaid, and appartenances, and upon the lot, premises, parcel or farm of land upon which the same shall be situated, to the extent of the right, title and interest of the owner of the property, whether owner in fee or of a less estate, or whether lessee for a term of years thereafter, or rendee in possession under a contract existing at the time of the filing of said notice.

The notice must be fined within sixty days of the competion of the claim, the person against whom the lien is made, the owner of the hand or the party in interest, Whenever the labor is performed by a contractor who shall have made a contract with the owner of the property, any money

remaining in the hands of the owner upon filing the notice with

remaining in the hands of the owner upon filing the notice with the owner is subject to a lien filed.

Where the claim is made against the contractor, notice must be served upon the owner of the amount of the claim, who cannot relieve himself of the liability by making payments to the contractor after the service of such notice.

Every lien shall continue to the expiration of six months of the time of filing notice, unless action is commenced within that time to forcelose; then the lien shall continue until judgment shall have been rendered, and for one year thereafter, pending an appeal taken, if any,

### MILLDAMS.

In all cases of application to the legislature for the passage of laws authorizing the constructions of dams, in or across the streams and waters of this state, which are by law public Hgb-ways, the following notice is to be given:

The notice shall be given for at least six successive weeks immediately before such application, or before the first day of the session at which the same is to be made, in a newspaper printed in the country, or in each of the counties where the objects of such petition are intended to be carried into effect. Private waterways can be constructed on land owned by person erecting dam, but such constructed on land owned by person the persons on the stream above or below dam.

dam

The statute provides that the following lands are and shall be the property of the people of the state, in their right of sovereignty: 1. All mines of gold and silver discovered within the state, 2. All mines of other metals discovered, or hereafter to be dis-

All mines of gold and silver discovered within the state.
 All mines of other metals discovered, or hereafter to be discovered, upon any lands owned by persons not being citizens of the thirde States.
 All mines of other metals discovered, or hereafter to be discovered, the or of which, upon the average, shall contain less than two equal third parts in value of copper, tin, iron and lead, or any of those metals.
 All mines and all minerats and fossils discovered, or hereafter to be discovered, upon any lands belonging to the people of this state, are, and shall be, the property of the people, subject to the provisions hereinafter made to encourage the discovery thereof. All mines of whatever description, other than mines of gold and silver, discovered or any formal to the discovery discovery thereof. All mines of whatever description, other than mines of gold and silver, discovered or any formal parts or more in value of copper, tin, iron and lead, or any of those metals, shall belong to the owner of such land.
 Every person who shall make a discovery of any mine of gold or silver within this state, and the executors, administrators or assigns of such person, shall be exempted from paying to the people of this state any part of the ore, produce or profit of such mine, for the term of twenty-one years, to be computed from the time of giving notice of such discovery, in the manner herein.

time of giving nonce of such ascerciptors and after directed discovering a mine of gold or sliver within this state shall work the same, until he give notice thereof, by information in writing, to the secretary of this state, describing particularly therein the nature and situation of the mine. Such notice shall be registered in a book to be kept by the secretary

mation in writing, to the secretary of this state, describing particularly therein the nature and situation of the mine. Such notice shall be registered in a book to be kept by the secretary for that purpose, licit a person or persons shall have discovered a mine or mines, and become entitled to work the same, such person or persons shall form a corporation; if the consent in writing to enter upon and break up the lands of any person in or mon whose lands said nime or mines are found shall be refused or cannot be obtained by agreement, or by reason of the infancy or the absence of such person from the state, or other legal disability of the owner of such lands, the said corporation so the register of the said corporation so the comparison of the infancy of the said corporation so the comparison of the lands of the public purpose of obtaining minerals reserved to the state; and the said right and easement are hereby granted to the corporation so formed, on their filling with the commissioners of the land-office a full description of the location of such lands and obtaining a grant thereof from after the commissioners of the land-office a full description of the location of such lands and obtaining a grant thereof from some the commissioners of the land-office a full description of the location of such lands and obtaining a grant thereof from some the commissioners of the land-office a full escription of the location of such lands and obtaining a grant thereof from some the commissioners of the land-office a full escription of the location of such lands are authorized to make the company entitled to work the mines are nuthorized to make the company entitled to work the mines are entitled to lands and obtaining a grant thereof from such the centre. Such as a commissioner to such an entity of the commissioners which prevent them centring in and upon such lands; and upon such petition the court may appoint three distincterested persons as commissioners for examine more than the court of the lands of the lands of the

1. The existence of the mine or mines proposed to be worked.

2. The mannes of the parties owning the land in which the mine or mines are situated, and the owners of the adjacent mine or mines are situated, and the owners of the adjacent of the mine of mines are situated, and the owners of the adjacent of the mines of the mines

# QUARRIES.

On this subject there are no statutory enactments, the owner of the property being entitled to excavate for quarries the same as other real estate owned by him.

# NORTH CAROLINA

Compiled by Walter E. Moore, Attorney at Law, Webster, N.C.

### CORPORATIONS.

Corporations for mining and manufacturing may be formed before the elerk of the superior court, and may hold land, and not to exist longer than sixty years. The articles of agreement shall set forth:

et forth:
1. The corporation name,
2. The business proposed,
3. The place where it is proposed to be carried on,
4. The length of time desired,
5. The names of persons who have subscribed,
6. The amount of the capital and the number of shares and
comment of each

6. The amount of the capital and the number of shares and amount of each.

These articles shall be under the hands and seals of the parties applying for such corporation.

Towers,—To sue and be sneed by its corporate name; to have a common seal; to render interest of stockholders transferable; to exempt the private property of stockholders from liability for corporate debts; to make contracts, acquire and transfer property; but all contracts involving or incurring a liability by the corporation to an amount exceeding site must be in writing and signed by some proper officer of the corporation or under the common seal can may be dissolved as follows:

1. For any abuse of its powers to the injury of the public or of the corporation, or of its creditors or debtors.

2. For non-user of its powers for two years or more consecutively.

tively.

For insolvency manifested by the return of an execution unsatisfied upon a judgment against the company docketed in the superior court of the county where it has its only or principal place of business.

I pon any conviction of the company of a criminal offense, if such offense be persistent.

LIENS.

Material-men have a ilen on every building, lot, farm or vessel for materials furnished by them to build, repair or remove. The lien also covers the lot on which the building or improvement is made, and is superior to any lien or incumbrance created after the materials are furnished. The claim for a lien must be filed in the office of the clerk of the superior count' within twelve mount is after the material are manuscle to the parties, a bill of the tended and the superior count of the property on which a lien is claimed; and if there be a special or a written contract, its terms must be stated. To enforce the lien a suit must be begin in the superior court within six months after the lien is filed, Sub-contractors must not only file lien, but must also notify owner before he setfles with contractor and furnish owner with statement of amount due. Owner may require contractor to furnish an itemized statement of amounts due material-men. Owner may retain chough out of contract price to pay material-men. Owner may retain chough out of contract contractor of any greater sum than was due contractor.

### MILLDAMS.

Anyone desiring to creet a mildam on a stream of which he owns one side and part of the bed, and who cannot agree with the owner of the opposite bank as to the amount of damages, may file a petition in the superior court of the county where such dam is to be erected, and the court will appoint three dishterested persons as commissioners who will assess the damages. After

payment of all damages and costs, the applicant will have a right to begin his construction.

to begin his construction.

INJURY TO PAISE.—Whoever shall cut away, destroy or injure any dam, or who shall obstruct any race, canal or water channel used for furnishing water for any mill, factory or machine works, shall be subject to both fine and imprisonment and also to a civil

section by the party injured.

OBSTRECTION OF STREAMS. If any person willfully fells any tree or puts any obstruction in any branch, creek or other stream, whereby mayigation of such stream by any raft or flat may be impeded, delayed or prevented, be shall be subject to a fine not to exceed \$50 or imprisoned not to exceed thirty days.

#### MINING.

MINING.

All leases and contracts for leasing land for the purpose of diaging for gold or other minerals or for mining generally, if whatever duration, shall be void, unless put in writing and signed by him their to be charged therewith or by some other person by him their beaver, and the party to be charged therewith or by some other person by him their beavers, unless of the region of the party with their leases, unless of the region in mining, who may find it necessary for the furtherance of his or its operations to convey water either to or from his or its mine or mines over the lands of any other person or persons, may make application by petition in writing to the clerk of the superior court of the county in whell the lands to be affected, or the greater part, are situated, for the lands to be affected, the name of the other leases, the lands of the other leases of the lands of the other leases, and said water. The petition shall specify the lands to be affected, the name of the other leases, and said owner shall be made party defendanted to be made; and said owner shall be made party defendant, and jurors, three in miniber, shall be appointed to assess the damage to the owner of said lands, and the party must first pay or tender the damages as assessed, when he will lave full right and power to enter and construct said ditlet or drain. Any person obstructing said directly or drain shall be guilty of a misdemeanor.

The working of mines will not be even charge the case of diligation of the party in possession is of doubtful ability to respond in damages if he be east in the action.

# NORTH DAKOTA

Compiled by Spalding & Pheles, Attorneys at Law, Fargo,

## CORPORATIONS.

CREATION. A corporation may be created by statute, which may be special for a particular corporation, or general for a particular corporation.

Expression of the corporation of the cor

multiple of corporations, and partnership corporation, or general for a number of corporations. Every grant of corporate power is subject to alteration, suspension or repeal, in the discretion of the legislature. Incorporation or right to exercise corporate powers shall not be collaterally attacked in any private suit, but such inquiry may be Every corporation must have a corporate name, which it may change at its pleasure. Corporations are either public or private. Public corporations are formed or organized for the government of a portion of the state. Private corporations are formed for the purpose of religion. This properties of the purpose of religion, and one public are private. The instrument by which a private corporation is formed is called "articless of incorporation" or "certificate of incorporation," and one-third of the officers of such corporation must be residents of the state.

tion, "and one-third of the officers of such corporation must be residents of the state.

Private corporations can be formed by three or more persons for the following purposes, viz.: Mining, manufacturing and other industrial pursuit of the private of the following purposes, viz.: Mining, manufacturing and other industrial pursuit of the private of

poration.
Certified copies of the articles of incorporation from the secretary of state must be received in all courts as prima facie evidence of the facts therein stated and of the existence of the corporation.

Proof of the existence of a corporation shall not be necessary unless the same is expressly denied.

COUPORATE STOCK—After the certificate is issued by the secretary of state the directors must open books for subscriptions of stock, and secure subscriptions to the full amount of the fixed capital, and may levy assessments and installments and collect the same.

When so authorized a corporation may forfeit stock for non-tyment or recover the amount of any subscription by suit, but payment or reco

All corporations for profit must issue certificates of stock when fully paid up, signed by the president and secretary. Shares of stock so issued are personal property and may be transferred by indorsement, but such transfer is not valid, except between the parties, until the transfer is recorded in the books of the corpo-

A corporation whose capital is limited cannot issue stock in expess of the limit

 $\Lambda$  corporation may purchase, hold and transfer its own stock, from its surplus profits.

A dividend belongs to the person in whose name the stock stands on the books of the corporation on the day when it be-

stands on the books of the corporation on the day when it becomes payable.

CORPORATE FOWERS. Every corporation as such has power to have succession by its corporate name for the period limited, or, if there is no limit, perpetually; to sue and be sued, to make and use a common seal, and after the same at pleasure; to purchase, hold, transfer and convey real estate and personal property; to apoint soration may require; to admit stockholders or members, and to sell their stock, to enter into any obligations or contracts essential to the transaction of its ordinary affairs.

Every corporation must within one month after filing its articles of incorporation adopt a code of by-laws.

A corporation may by its by-laws provide: The time, place and manner of calling and conducting its usceims; the number of stockholders or meet the ordinary of the annual election of directors, and the mode and namner of giving notice thereof; the concentration and duties of officers; the manner of election and tenure of office of all officers other than directors, and suitable penalties for violations of by-laws, not exceeding, in any case, so for each offices.

All by-laws adopted must be certified by a majority of the number, by a two-thirds your the corporation and conjucting the number, by a two-thirds your open to the inspection of the number, by a two-thirds you can be used to one called for that purpose.

The directors must be chosen annually, and all obsertions was

any by-any repeated at an animal meeting or one called for that purpose.

The directors must be chosen animally, and all elections must be by ballot, each share of stock entitling its builder to one vote, and the properties of the properties of the controlled by a board of directors, consisting of not less than three nor more than eleven. Directors of a corporation for profit must be stockholders in an amount to be fixed by the by-axes of the corporation.

Immediately after their election the directors must elect from their own number a president, secretary and treasurer. A majority of the directors binds the corporation.

Directors must not make a division except from the surplus profits, nor must they divide, withdraw or pay out any part of the capital stock, nor create debts beyond the capital stock. Directors violating these provisions are liable to the corporation and its creditors jointly and severally for the full amount divided,

Officers making false certificates, official reports, public notices or entries on the books or records of a corporation shall be liable for the damages resulting therefrom.

No director shall be removed from office except by a two-thirds vote of members or stockholders holding two-thirds of the extent.

A stall elections or votes had for any purpose, there must be a majority of the subscribed capital stack or of the members, repre-sented either in person or by proxy, in writing. Every person acting therein, in person or by proxy, must be a member thereof, or a bona fide stockholder, having stock in his own name on the stock books of the corporation at least ten days prior to the

stock books of the corporation at least ten days prior to the election.

Every stockholder in a corporation is personally liable for the debts of the corporation to the extent of the amount that is unpaid upon the stock held by him.

Every corporation may hierense or diminsh, its capital stock at the proporation and hierense or diminsh. Its capital stock at the following the fo

If voluntary, its dissolution may be effected by its voluntary application to the district court for that purpose.

If a corporation does not organize and commence the transaction of business within one year from date of its incorporation, its corporate powers cease.

After one-fourth of the expirite subscribed, the directors may beyy assessments upon the subscribed stock, for the purpose of paying debts, paying expenses, or conducting business.

No assessment must exceed ten per cent, of the amount of the stock named in the articles of incorporation unless the whole capital stock has not been paid up, and the corporation is unable month upaid. Railfroad ecoporations may assess stock from per cent, per month, and mutual life, fire and marine insurance companies such a per cent, as they deem proper.

Every order levying an assessment must specify the amount, when, to whom and where payable, and fix a day upon which unpaid assessments shall become delinquent.

Notice of assessment must be personal past be published for four weeks in a newspaper published at the principal place of business of the corporation.

Hassessments are unpaid, notice of sale must be published in the same paper for ten days if in a daily, or two weeks in a newspaper published at the principal place of upon which assessments are unpaid, such as a day and amount due thereon.

Stock must be sold at public anction on the day and place.

By publication the corporation obtains jurisdiction to sell stock upon which assessments are unpaid.

Stock must be sold at public anction on the day and place named in the notice to the highest bidder for cash.

The person offering to pay the assessments and costs for the smallest amount of stock is the highest bidder.

It no bidder offers the amount of the assessments and costs for the single state of the single state of

payment.

EXAMINATION OF CORPORATIONS.—The legislative assembly may examine into the affairs of any corporation at any time, and the committee appointed by such legislature shall have power to administer oaths to the officers of such corporation, and examine them as to the condition of the corporation, and may compel the production of all keys, books, papers and documents.

### LIENS

Every miner or other person who, at the request, of the owner or owners, or his or their agents, of any lode, lead, heige, mine or deposit bearing gold, cinnabar or copper, or of any coal bank or mine, or at the request of any contractor or sub-contractor, shall perform any labor or furnish any materal in or about such mine, that have a lieu upon such mine, to secure the payment of the

Miners or other persons performing labor or furnishing any Miners of other persons performing about or unrinshing an materials to a contractor may furnish an aftested copy of their account to the owner of the mine or his agent, and he shall re-tain the amount thereof out of the first subsequent payment to the contractor for whom the work was done or materials fur-

the contractor for whom the work was done or materials furnished.

The owner shall furnish the contractor against whom account is claimed a copy of the same, and if he fails or refuses to dispute the claim, or if disputed fails to have the same adjusted. The amount which may be due from any contractor to his creditor on the contractor to his creditor may be receivered from the owner of the mine, by the creditor or the contractor to the extent in value of any balance due by the owner to the contractor, at the time of the notice of indebtedness first given.

Any person claiming a lien shall make his account in writing, and, after making oath thereto, shall within sixty days from the date of the last flem of the account life the same in the office of the clerk of the district court, filing at the same time a correct same shall for one year from the turnishing of the last flem of the account he a lien upon the property charged in the description; if work was done or materials furnished under a written contract, copy of same shall be filled with account and oath.

The holder of a lien may proceed to obtain judgment for the amount of his account in a civil action, and during the pendency of his action the lien sued upon shall still continue.

### MINING

Location and Size of Claims—bength of lode claims may equal but shall not exceed fifteen bundred feet; width shall not exceed on hundred and fifty feet each side of the center of vein. Any county may by majority rote at a general election make a greater which, not for exceed three hundred feet each side of center, or less, but not less than twenty-live feet each side of center. The discoverer of a lode must within sixty days from discovery record his claim in the office of the register of deeds of the county in which the lode is located. The location certificate must show the name of lode, finne of locator, date of location, number of feet in length, number of feet in length, number of feet in length each of lode.

Before filing certificate the discoverer must locate claim by sinking discovery shaft, and post on surface notice containing name of

lode and other particulars as required in certificate, and must mark surface boundaries of claim.

Surface boundaries must be marked by posts, set one at each corner and one in the middle of each side and end, marked on side next to claim with the name of lode, and the corner end or side they respectively represent.

The discoverer shall have sixty days from the time of discovery flode to sink a discovery-shaft.

of bote to sink a discovery-shaft.

The location certificate shall include all surface ground within the surface lines thereof, and all lodes and ledges throughout the surface lines thereof, and all lodes and ledges throughout the surface lines thereof, and all lodes and ledges throughout the surface lines thereof the control of the surface lines that the surface lines are successed as the claim, and shall control of the surface shall line of the claim, nor beyond the side-lines of the claim, and shall line of the claim, nor beyond the side-lines except by dip of the lode. When the right to mine is separate from the ownership or right of occupancy of the surface, the owner or occupant may demand satisfactory security, and if refused may enjoin the miner. If locator deems the original certificate defective, he may file an amended certificate, provided it does not conflict with existing rights. Re-location does not preclude the locator from proving title under his previous location.

To hold possession of a mining claim \$100 worth of work must

To hold possession of a mining claim \$100 worth of work must be done or improvements made each year,

Re-location of abandoned claims shall be by new discovery-shaft and fixing new boundaries, and the location certificate must state that the whole or part of the new location is on abandoned prop-

No location certificate shall contain more than one location.

No location certificate shall contain more than one location, whether made by one or more locators.

DISPUTED MINITG PROPERTY.—In actions wherein the title or right of possession to mining property shall be in dispute, the judge may upon application order both a surface and underground survey, and shall designate the proper surveyor.

Judges of the district court have power to issue writs of injunction for affirmative relief, hasting the force and effect of a mining property from which they may have been obsered by force or frand, such writ to extend only to the right of possession, leaving the parties to their legal rights as though no such writ had issued. had issued.

RIGHT OF WAY.—Proprietors of mining claims have right of way across lands of others for road, ditch, thme, shaft or tun-nel, provided such claim is so situated that it cannot be worked

If right of way cannot be secured by agreement, the same may

If right of way cannot be secured by agreement, the same may be had on petition, duly verified, to the district court, setting forth the facts, and demanding the relief sought. The facts are setting to the facts and demanding the relief sought of the conserved fands across which right of way is asked, to show cause why such right of way be not granted. If the judge is satisfied on hearing the proof that right of way should be granted, he shall make an order to that effect and shall appoint appraisers to assess damages to lands affected by

his order.
The commissioners shall examine the premises and report

The commissioners shall examine the premises and report damages to the court. Upon payment of the assessed damages, the petitioner shall be entitled to the right of way asked for and to enter upon the premises and erect structures or dig excavations.

premises and erect structures or dig excavations. Appeals from appraisal may be made to the court, and there tried by the court or a jury.

The pendency of an appeal shall not prevent the applicant for right of war from seeinging the reviews on filing a bond to get the court of the property of the court of the property of the proper

When the owners of land have no available water facilities When the owners of land have no available water facilities upon them, or if the land is too far removed to use the waters of such stream or creek, such owner shall have the right of way from such stream.

Right to dig water-courses shall only extend to such digging as is necessary for the purpose required. In all controversies respecting the right to water, the same shall be determined by the date of appropriation as made by

shall be determined by the date of appropriation as made by the respective parties.

Waters of streams may be made available to the full extent of Waters of streams may be made available to the full extent of committed in quantity, so that the same do not materially affect or impair the rights of their prior appropriator.

Damages caused by digging diffiches or building flumes shall be paid by party committing the injury.

Ditches or other artificial water courses across highways shall be bridged and water not allowed to damage such highway, under many the monophility water shall dig at least twenty feet of course across monophility water shall dig at least twenty feet of

penalty of tine of \$100.

Party appropriating water shall dig at least twenty feet of ditch and turn water from stream therein within thirty days from date of appropriation, and shall dig or construct twenty rods of ditch or linne within six months, and within twenty days from appropriation shall fle location certificate with register of deeds, and shall post a copy of location certificate at head of ditch, which shall contain name of locator, date of location and number of inches of water claimed.

Failure to commence construction of ditch or finnes shall be

Failure to commence construction of ditch or flume shall be considered abandonment of appropriation.

# OHO

Compiled by ROBERT E. McKisson, Attorney and Counselor at Law, Mercantile Bank Building, Cleveland, Ohio.

### CORPORATIONS

CORPORATIONS.

Under the constitution, corporations can only be formed under general laws. Each stockholder is liable on his stock for any amount impaid thereon, and to a further amount equal to such stock holder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote, in which case he shall not force the stockholder shall have but one vote in the stockholder shall have but one vote in the stockholder shall have but one of the stockholder shall have been dead in the stock and the stockholder shall be state, or carrying on professional business. Private corporations, under the laws of Ohio, are classed as corporation profit, the stock of the organization is not for profit.

1. The name of the corporation to the shall begin with the word "The" and early with the stock is divided.

2. The purpose for which it is formed.

3. The purpose for which it is formed.

4. The amount of capital stock, and the number of shares into which the stock is divided.

3. The purpose for which it is formed.

4. The amount of shall stock and the number of shares into which the stock is divided.

5. The purpose for which it is formed.

5. The purpose for which it is formed.

6. The immunity of the original stock is of hearing and the stock is divided.

6. The immunity of the original stock is the branches shall peace and in purpose of the will be shall

comity or legislative consent. That consent may be upon such terms and conditions as the general assembly under its legislative power may impose. 128 O. S., 523.1

Powerson Miniya on Miniya Facturing Cordon vitors. Any company herefore incorporated or that may hereafter be upon the consequence of the consequence of

corporate seal of the company, setting forth the particular branch corporate seat of the company, setting forth the particular branch or branches of the manufacture of iron in which it purposes to the grant and the property of the property of the president of the president of the president and acknowledged, certified and forwarded to the secretary of state; and thereupon the company may carry on the business named in such certificate, in addition to the business named in the original articles of incorporation. (74, v. 2), Chapter II, Section 1.)

manued in the original articles of incorporation. (74, v. 21, Chapter II, Section 1.)

May BUILD A RALIKOAD.—Companies organized for the purpose of mining, quarrying or manufacturing may, when such purpose of stated in the articles of incorporation, construct a railroad, with a single or double track, with such sucteracks, furnouts, offices and depots as they deem necessary to carry out the objects of the incorporation, from any nine, quarry or manufacturing the incorporation of the property of the carry of the railroad, and and such in respect to such railroad, be subject to and governed by the provisions of Chapter II. (53 v. 108, Section 3.)

#### DAMS, WATER-COURSES, ETC

Dams, water-courses, sewers, diffense, etc., hearted on other than public lands of the United States, are governed by the ordinary rules applicable to real estate, barns, water-courses, sewers, ditches, etc. may be established upon anyone's property providing the same does not conflict with or injure the rights and interests of adjoining property owners in such water-courses as the same may be established in or so connected. The county commissioners of any county may, whenever in their opin-converse of the same does not be successed in the county continued of the control of the contro

improved, and then from such time all rights shall cease and be barred.

A person who performs that have or repairing a boat, wessel or other was a contracting altering or repairing a boat, wessel or other structure, and the structure of the structure, and the structure, and the structure, and the structure, and the structure, or for the digging or boring of any gas, oil or other structure, or for the digging or boring of any gas, oil or other structure, or for the digging or boring of any gas, oil or other well, or in inling coal, by virtue of a contract with the owner or his authorized agent, shall have a lien to secure the payment of the same map stand or be learted or in the lot or kand on which the same may stand or be learted or in the lot or kand on which the same may stand or be learted or in the lot or kand on which the same may stand or be learted or in the lot or kand on which the same may stand or be learted or in the lot or kand on which the same has ball, within four months from the time of performing such labor, or furnishing such machinery or material, and alternative in a time of the same shall have a structure of the amount and value of such labor, machinery or material, and a destriction, with all credits and oldsets thereon; a copy of the contract, it in writing; a statement of the amount and times of payment to be made thereunder, and a description of the land on which the house or other building, structure, gas, oil or other well may stand, or be located, or to which it may be removed; and the same shall be recorded in a separate book, and shall operate as a chinery and material furnished, upon or toward the property, and the interest of the owner in the lot or land upon which the same may stand, or to which it may be removed, for the period two years from and after the date of filing of such attested statement. If an action is brought to enforce such lien within that fine, it shall continue in force until the final adjudication thereof them. If it, S. Section 388; \$5, 60, 14, 237, 11 Seve

within thir, y days from the expiration of said three months, with the recorder of the county, an itemized statement of the claim. When the healthas been this secured, it will continue valid for one year from such tiling, and to the end of any action begun within that time to entores such lien, (80 O. L., 183.)

## RIGHT OF WAY.

All mining, quarrying, etc. claims shall be subject to the right of way of any ditch, flume or sewer, etc., for mining purposes, or the extraction of the extraction of the extraction against any location duty made and recorded and not abandoned prior to the extablishment thereof, without consent of the owners, except by condemnation.

Mine owners have the right to appropriate private property to such extent only as to work their mine according to the state law; that is, as to shafts, outlets, cages, etc., giving workingmen distinct means of ingress and egress.

# OKLAHOMA TERRITORY.

Compiled by WILLIAM BLINCOE, of Wm. Blincoe & Roy Hoffman, Attorneys at Law, Guthrie, O. T.

#### CORPORATIONS.

CREVION.—Private corporations for mining, quarrying and other baseinss purposes are created by filing with the secretary of the territory, each of the relief of the corporation, setting forth the name, purpose, principal place of business, term, number, names and residences of directors and the amount of capital stock and number of shares, which articles must be subscribed by at least three persons, one-third of whom must be residents of the territory, upon which the secretary of the territory issues the certificate of incorporation. A corporation must begin busised to the corporation must begin busised to the corporation and the composition must be produced attention, suspension or repeal in the discretion of the legislature. They may be dissolved in the usual way.

OFFICERS.—There must be not bess than three nor more than eleven directors, who shall be elected for one year and shall be stockholders. No dividend shall be declared except from surport of the corporation of the capital stockholders. And officers and the corporation is the corporation of the capital stockholders and the corporation of the capital stockholders are such as the corporation shall be liable to any person for all damages let may sustain.

of the corporation shall be liable to any person for all damages he may sustain.

STOCKHOLDERS.—Each stockholder of a corporation is individually and personally liable for the debts of the corporation to the extent of the amount that is unpaid upon the stock held by him. The capital stock may be increased or diminished by a two-thirds vote, but shall in no case be deervased to a less amount than the indictedness. Stock is negotiable, but only affects third parties when transferred on the books of the association of a district of a corporation. A corporation must keep a record of its business proceedings, which shall be open to every member and creditor.

business proceedings, which shall be open to every member and creditor.

MINING AND MANUFACTURING CORPORATIONS.—Such corporations are organized as other corporations and are subject to their duties and liabilities, but their term of existence shall not exceed twenty years. The purpose of the organization must be exceed twenty years. The purpose of the organization must be startly such as the proporation of the comparison o

Every person who shall do any labor upon, furnish any materials, machinery or fixtures for any building, erection or other improvements upon land, including those engaged in the construction or repair of any work of internal improvement, by virtue of any contract with the owner, his agent, trustee, contractor or sub-contractor, upon complying with the provisions of this article shall have a lieu upon such building, erection or improvement, and upon the land belonging to such owner on which the same is situated, to secure the payment.

A sub-contractor must file his notice of lien with the clerk of the district court within sixty days after the last of said work shall have been done, or material furnished, and an original constitution we said they shall not referred the lien except a grainst purchasers or incumbrancers in good faith without notice, whose rights accrued after the sixty or ninety days and before the claim for lien was filed.

No lien is created upon the homestead unless the contract for the material is in writing, and then if the amount is over \$500 the wife must sign the contract and acknowledge in the same manner as a deed for the homestead. An action to enforce a lien must be begun in the district court within one year from the filing thereof.

## OREGON

Compiled by Robert G. Smith, Attorney at Law, First National Bank Building, Grant's Pass, Ore.

#### CORPORATIONS.

Private corporations are formed under a general law by three or more persons making, subscribing and acknowledging, as in the case of deeds, written articles of incorporation in triplicate, filing one copy with the secretary of state, one with the county deed to the county where the principal office or place of business of the corporation is to be, and retaining the third in the possession of the corporation.

nossession of the corporation.
The articles must specify:

1. The name assumed by the corporation and by which it should be known, and the duration of the corporation, if limited.

2. The enterprise, business, pursuit or occupation in which the corporation proposes to engage.

3. The enterprise of business, proposes to have its principal office or place of business.

4. The amount of eapltal stock of the corporation.

5. The amount of each share of such capital stock.

6. If the corporation is formed for the purpose of navigating any stream or other water, or making or constructing any railroad, meadamized road, plank road, clark or odd, callal or site of such bridge.

After films, the articles of incarporation the corporators of the offer of such bridge of incarporation the corporators of the offer of such bridge of incarporation the corporators occurs.

After filing the articles of incorporation, the corporators open books and receive subscriptions to the capital stock. After one-half or more of the capital stock is subscribed, the stockholders meet and elect directors.

meet and elect directors.

DIRECTORS.—A director must be a stockholder in the corporation and a resident of the state of Oregon, except that in corporations for the purpose of construction railroads or military
wagon roads, canals or flunes, or carrying on mining enterprises,
or publishing newspapers, or conducting institutions of learning,
a minority of the board of directors may reside out of the state.
Directors must take an oath of office. The directors elect a president and secretary, and such other officers as are required.

Powers, "The corporation has authority by the name assumed in the articles:

1. To sue and be sued.

2. To contract and be contracted with.

3. To lave and use a corporate seal, and the same to alter at

- pressure.

  The state of the pressure and dispose of such real and personal activities may be necessary and convenient to carry into refuel the objects of the corporation, and to take, hold, possess and dispose of all real and personal property donated to such corporation by the United States, or by any state, territory, county, city of other municipal corporation, or by any person, firm, association or private corporation, for the purpose of aiding in the objects of such corporation.
- To appoint such subordinate officers and agents as the busi-ness of the corporation may require, and prescribe their duties and compensation
- 6. To make by-laws not inconsistent with any existing law for 6. To make by-laws not inconsistent with any existing law for the sale of any portion of its stock for delinquent or unpaid assessments due thereon; which sale may be made without judgment or execution, provided that no such sale shall be made without thirty days' notice of the time and place of sale in some newspaper in circulation in the neighborhood of such company; for the transfer of its stocking in the neighborhood of such company; and for the general regulation of its affairs.
- and for the general regulation of its affairs,

  7. In case the object or purpose for which any such corporation
  is incorporated is. In whole or in part to construct, or construct
  and operate a rathroad, to lease any part or all its road to any
  other company incorporated for the purpose of maintaining and
  other company incorporated for the purpose of maintaining and
  other company upon such terms and conditions as may be agreed
  upon between said companies respectively. Any two or more
  railroad companies whose lines are connected may perfect any
  arrangement for their common benefit to assist and promote the
  object for which they were created, provided that nothing in this
  line to any company or corporation owning a road which forms
  a competing or parallel line to its railroad.

  The stockholders meet amountly and elect directors, who hold

The stockholders meet annually and elect directors, who hold their office for one year and until their successors are elected and

qualified.

. STOCK,—The stock in private corporations is personal property and subject to attachment, execution, levy and sabe as such. All sales of stock, whether voluntary or otherwise, transfer to the purchaser all rights of the original holder, and subject such purchaser to the payment of any unpaid balance due on such stock, but if the sale be voluntary, the seller is still liable to existing cereditors for the amount of said balance, unless the

existing creditors for the amount of said balance, miless the same be paid by the purchaser.

A corporation failing to belt directors and commence the A corporation failing to belt directors and commence the articles of incorporation, or ceasing to carry on business for six months, forfeits its corporate existence. The capital stock may be increased or diminished, or the amount of the shares changed by a majority vote of the stock at a stockholders' meeting called for that purpose.

for that purpose.

SUPLEMENTAIN ARTICLES OF INCORPORATION. The directors may file supplementary articles of incorporation when authorized by vote of the scheckholders, for the purpose of changing in the supplementary articles of incorporation when authorized by vote of the scheckholders, for the purpose of changing in vote STON MOLDERS. The stockholders are liable for the indehtedness of the corporation to the amount of their stock subscribed and unpaid, and no more. Corporations organized for-constructing railroads, etc., may exercise the right of entiment domain. Land is condemned to their use, and the compensation to be paid by them fixed by action in the circuit court. FORFIGN CORFORATIONS. Foreign corporations, upon complying with the laws of the state, may do business therein as like domestic corporations. Municipal corporations are created by special acts of the legislature.

Liens for material are given any person furnishing material to be used in construction, alteration or repair, in whole or ni part, of any building, wharf, bridge, thinne, timinel, feace, machinery, aquedact, mine, mining duch, look, mining claim or deposit structure, or in grading or improving any lot in an incorporated town or elty, for the value of the same, when turnished at the instance of the owner or his agent.

The land on which the building or improvement is located, with a convenient space around the same, is subject to the lien to the extent of the interest two will by the person causing the improvement of the interest would be person causing the improvement of the interest would be person causing the improvement of the interest with the interest when the person causing the improvement, but the interest with the interest when the person causing the improvement, person having or claiming an interest therein. Such commenced to be furnished and placed on or adjacent to the land. And the lien shall be an incumbrance on the building or other improvement, preferred to all prior incumbrance on the land; and The original contractor must file his hen within thirty days from the time he ceased to furnish naterials; all others have sixty days. Liens are fleed with the country election of the country, and are binding for six months from date of credit; but no lien shalt continue in organ for more than two years. Lens are forechosed by a suit in equity in the circuit court. Lens do not attach to public property.

### MENTAG

The constitution provides that no Chinaman not a resident of the state at the adoption thereof shall hold any mining claim or work any mining claim.

My person or company establishing a lode claim is allowed to the control of the topal claim. Claim is established by posting a notice good or thirty days, and if recorded before that thue will hold claim till one year from 1st day of January next following the location thereof.

Within one year after the state of January next following the location.

one year from 1st day of January next following the location between the continuous process of the process of t

# PENNSYLVANIA

Compiled by SIDNEA R. MINER, Attorney at Law, Wilkes-Barre, Pa.

### CORPORATIONS.

The constitution, in effect January 1, 1874, provides:

I that no local or special laws shall be passed by the general assembly (either directly or by the partial repeal central laws) meorporating terry or bridge companies (except for the creden of bridges crossing streams which form boundaries between this

and other states), creating corporations, amending, renewing or extending their charters, or granting them any special or exclusive privilege or imminity, or the right to lay a railroad track; nor any laws to limit the amount to be recovered for injuries to person or property, nor the time within which suits may be brought against corporations, which time is the same as that fixed by general laws for similar actions against natural persons,

laxed by general mass for summarraneae, against a construction wit, six years.

2. That the state may not surrender or suspend its power to tax corporations or corporate property, nor authorize numicipalities to become stockholders in, furnish money for or loan credit

thes to octube son a sources many mot mean model to any corporation.

That municipal corporations may not incur indebtedness, exceeding seven per centum upon the assessed value of their faxable property; and when they do incur indebtedness, winst lay a tax sufficient to pay off said indebtedness, with interest, within

exceeding seven per centum upon the assessed value of their taxable property; and when they do incur indebtedness, must lay a tax sufficient to pay off said indebtedness, with interest, within the pay off said indebtedness, with interest, within and the properties of the subject to the right of eminent domain and may not intringe the rights of individuals or the general websites of the state; nor engage in any business not expressly authorized by its charter; nor hold more real estate than is necessary and proper for lis legitimate business; nor issue stocks or bonds except for money, labor done, or money or property actually received; nor increase its stock or indebtedness except actually received; nor increase its stock or indebtedness except after sixty days offer, according to law. All fletitious increase its stock or indebtedness is void.

5. That in all elections of directors or managers of corporations incorporated since the adoption of the constitution, each stareholder may elther east the whole number of his votes for one candidate, or divide them as he may prefer.

The construction or enlargement of the works of corporations incorporated in the construction or enlargement of the works of corporations highways or improvements, such compensation to be paid or secured before such taking, Injury or destruction; and the general assembly may not deprive any person of appeal from any prelimbary issessment of damages, but on demand of either according to the construction of the state, of all notes or bills designed to the state, and the control of the state, and the control of the state, and the control of the state, and no banks shall be chartered for more than wently control and the properties of the state, and an observed.

5. That any association for the purpose, or any individual, may construct and maintain telegraph lines and connect the same with other lines, to be regulated by reasonable and general laws on the earth of the general assembly may active the active or annul any construct and maintain tel

with other mes, to be regimined by regionalized and general laws, but no ledgraph company may consolidate with or gain control of the control

or employes,

13. That no railroad or canal company may consolidate with or
gain control of any competing line; and no officers or agents may
have any interest in contracts for materials or supplies,

14. That common carriers may not engage in any other business, nor hold more real estate than is necessary for their business, but any mining or manufacturing company may own a canal

or railroad, not more than fifty niles in length.

15. That street railways may not be constructed without the
consent of local authorities.

## ACTS OF ASSEMBLY.

LASSES, - Corporations are divided, according to the purpos

CLISSES, Corporations are divided, according to the purposes of their formation, into two classes;— The first class, not for profit, which may hold real estate, the yearly income whereof does not exceed \$2,000; and the second class (including mining, quarrying and similar companies), for profit.

FORMATION,—1. Charters of intended corporations must be subscribed by at least five persons, three of them citizens of the commonwealth; and set forth the lame, purpose, term of existence place of business, mulmer and natures of differences of the control of the commonwealth and set forth the lame, purpose, term of existence place of business, and manness of differences of the collection, and natures, addresses and number of shares of subscribers.

Serinors, 2. Notice of intention to apply for a charter of the first class, of the objects thereof, and the time and place of intended applica-tion must be published in two newspapers of the proper county, for three weeks, and the petition acknowledged before the recorder of deeds, by at least three of the subscribers, and certi-

recorder of decay, by at least three of the subscribers, and certified by him.

3. The petition must then be presented to a law judge of said county, with proof of publication, and upon examination, approval and indorsement be recorded, with his decree of approval,

in the recorder's office

4. Certificates of corporations of the second class (except building and loan associations) must, in addition, set forth the amount of capital stock, and number and par value of shares, the name and address of the treasurer, and the fact that fen per cent, of the capital stock has been paid in rash to him; and the interval of the capital stock has been paid in rash to him; and the interval of the capital stock has been paid in rash to him; and the interval of the capital stock has been paid in the certificate, that the statements therein contained are true.

5. Certificates must next be presented to the governor of the state in the same namer in which those of the first class are presented to the judge, and in the same manner approved by him; wheremon letters patient shall issue in the name of said corporation. The original certificate must be recorded or said corporation. The original certificate must be recorded and abstract thereof numished to the auditor-general, to be recorded in his office.

6. Purchasers at judicial sales of the property and franchises of corporations are invested with the same, on condition that said purchasers accept Article XVI of the constitution, meet and organize within thirty days of such sale, and furnish a certificate containing the date of organization, name and other facts concerning the new corporation to the secretary of state for record in his office.

7. Executors and trustees may, with the consent of the bene-ficiaries, either by themselves or with others, organize second-class corporations.

class corporations.

RENEWAL AND AMENDMENT OF CHARTERS.—1. Charters may be renewed in the same manner in which new ones are granted, but must set forth the fact of renewal, the name of the corporation, the date of the original charter, a certificate under the corporates seal showing the consent of a majority in interest, its financial condition, its acceptance of the provisions of the constitution and the statute, and its surrender of all privileges granted by the original charter not given to corporations of its stock by its.

class by law.

2. First-class corporations may be consolidated and their charters amended by deeree of the court of common pleas of the proper county, upon examination and approval by said court, by effect the court of the cou

PowErs.—1. To have succession by their corporate name, perpetually, or for the period named in their charters.
2. To maintain and defend judicial proceedings.
3. To have and use a common seal, to be altered at pleasure.
4. To deal in real estate, within evertain limits.
5. To appoint and remove subordinates, and arrange their composation.

ation. To enter into any obligations necessary to the transaction of

6. To enter into any obligations necessary to the transaction of heir ordinary adairs.
7. To make by-laws (not inconsistent with law) prescribing times and places of meeting, powers and duties of officials, and penalties for the breach of the latter, not exceeding \$80.
8. To issue certificates of stock under the corporate seal, since by the president and countersigned by the freasurer, transfer-able subject to payments due thereon, with all the rights, Balti-ties, etc., of the original holders, but stockholders inducibed to a corporation may not transfer their stock without the consent of the directo

of the directors.

9. To issue preferred stock, and to issue deferred and paid-up stock in payment or exchange for real and personal property.

10. To lay assessments upon shares, not to exceed the amount at which such shares were originally limited.

11. To increase the capital stock (after the amount thereof is fully paid in) to the amount of \$10,000,000, by a vote, by ballot, of the stockholders, at a meeting held ratter notice published once a week for sixty days of therefore. If the vote be in the original process, and to the secretary of the commonwealth to be recorded in his office.

favor of increase, return must be made, under outh, to the admitoring beneral, and to the secretary of the commonwealth to be recorded in his office.

1. In case of second-class corporations, to reduce their stock or the corporation and the commonwealth of the corporation, and the corporation, and the corporation, as the common of the corporation, and the corporation, sevent from or steel companies, or hold the same, except as collateral security for a prior indebtedness, and no other corporations, sevent from or steel companies, or hold the same, except as collateral security in a prior indebtedness, and no other corporation shall hold the majority of stock of any common carrier.

13. To borrow money cat not more than six per cent, interest by issuing bonds, secured by mortgages to trustees for bond-holders to an amount not exceeding texcept in certain classes of corporations having power to borrow to the amount of double-tier stock, one-half of the capital stack paid in.

14. To change, of the class of the trunds in certain specified securities. (Act of March 31, 188, Section 1.)

15. To invest their surphus or other runds in certain specified securities. (Act of March 31, 188, Section 1.)

16. To surrender any of their powers or to be dissolved on approval and by decree of court.

17. To have special polecumen appointed by the governor, 18. In case of exhibition companies, to mortgage all their property and framehose; chatfel mortgages to be acknowledged, recorded and Sued out the same as those on real estate, and if such property and framines be sold, the purchasers to have the same rights, etc., as the original companies.

19. In case of ship-building companies, to increase their capital stock to the amount \$5,000,000, and receive necessary property in payment thereof.

THEIR ELECTION.—1. Corporations must have a board of directors or trustees tone of whom must be presidently a clerk, a treasurer (to give bond), and such other officers of they choose; the directors to be elected annually, by the stock-holders or members, and the time and manner of choice of directors and other officers to be regulated by the by-laws. A majority of the directors shall always constitute a quorum.

2. Officers conducting corporation electrics shall be a general ejection of officers of the commonwealth, and an election ordered.

3. All clertiops must be by ballot, each share representing power.

3. All elections must be by ballot, each share representing one vote; the stock books shall be evidence of the right to vote, and the beneficial owner be preferred to the one in whose name the stock stands.

street stands.

4. In case of vacancies, in any offices, the remaining directors has fill the same till the next election.

LIMILITY OF STOCKHOLDERS,—Except in corporations, specially provided for by statute, stockholders are iodividually liable for labor done for corporations, to the amount of the stock they hold, but only when the property of the corporation in the county is not sufficient to satisfy the claims; and holders of paid-up stock are not liable for more than six months' wages.

DAMAGES, Damages for property taken must be assessed by the viewers appointed by the control conditions and holders of paid-up stock are not failure to agree, the corporation may give a sufficient bond for the payment of damages, whereupon the right to take possession immediately vests in said corporation.

ACTIONS AGAINST CORPORATIONS.—I. Notices and process may be served upon the, president or other principal officer, cashier, treasurer, secretary, chief clerk or toll gatherer, of any corporation, or, in their absence from the county, upon the agent, and in case of railroads, process may be served upon any manager of directors.

and in case of railroads, process may be served upon any manager or director.

2. Corporations having their principal offices out of this state may be such in any county where their works or real estate are located, or in which any officer or director may reside, and process may be served on such officer or director by publication of a copy of the process for six weeks before return day.

3. The sherilf of any county where any corporation has property, but no officer oragent, may serve process upon such corporation in an other comment is rendered against a corporation, and no goods are found to levy upon, and the plaintiff suspects such corporation of baving concealed the same to avoid execution, the rourt in which the judgment was obtained will issue eitation to the officers of said corporation sawer interrogatories, and, if property be found, a writ of sequestration.

5. Writs of execution against corporations may be executed without stay, in any county, and upon fraochises besides the property ordinarily subject to levy.

6. Corporations having suspended by usiness, or made a transfer or assignment at time of or after service of process, are excluded from the statute of limitations.

Misse ELAN KOIS. - I. Corporations may be prestrained by Misse ELAN KOIS. - I. Corporations may be restrained by

or assignment at time of a rate service or process, are valuated in the state of similar them. The state of t

such increase.

such increase.

4. The capital stock of corporations is transferable on the books, may not exceed \$1,000,000, and must be divided into shares of not more than \$100 each, to be deemed personal property. And no shares are transferable until all previous calls thereon are paid, or until forfeited for non-payment thereof. In case of default in payment of subscriptions, one and one-half per cent, a law, or the stock of the subscriptions, one and one-half per cent, a law, or the stock of the subscriptions, one and one-half per cent, a law, or the stock of the subscriptions, one and one-half per cent, a law, or the stock of the subscriptions, one and one-half per cent, a law, or the stock of the subscriptions, one and one-half per cent, and the subscriptions are subscribers in arrears within thirty days preceding an election may not vote at such clerking.

interests within thirty days preceding an election may not vote at such election.

FORKICN, CORDORATIONS,—1. Foreign, corporations of the second class doing business in this state, and having three citizens thereof among their stockholders, may become domestic corporations by having approved and recorded: 1. A certificate setting forth (i) the name, (b) purposes, (c) place of business, (d) term of existence, (c) names and residences of stockholders and the number of each one's shares, (f) number of directors and names and addresses of those elected for the current year, (d) amount of capital stock and number and par state and (i). Business, (d) term of the companion of the corporation of

proper county, and approved and indorsed by the governor, showing the consent to such application of a majority in interest and to a remuelation of its original charter, and all privileges not enjoyed by second-class corporations in this state, said certificate to be recorded in the recorder's office of the proper county and in the office of the secretary of the commonwealth, and an abstract thereof furnished by kini to the auditor-general.

2. A foreign corporation which has become domestic has the same rights, privileges, powers, immunities, lands, property and general law and its certificate; and all previous chains, etc., for and against said corporations [may be such proscuted and collected under the laws governing the same prior to the new charter.

other terms.

3. Foreign corporations may purchase real estate at judicial sales, but may not hold the same more than fifteen years.

4. Foreign [23as, shed and iron companies may have factories and other necessary real estate not exceeding one hundred acres, to be subject to taxation and to the same regulations as domestic corporations as to amount of equital employed, travation of same, and the same regulations as the same regulations as domestic corporations as to amount of equital employed, travation of same, and the same regulations are successful to surface of the same of the same

misdemenner.

7. Foreign corporations may not hold real estate unless specially authorized by law, but the fact that some of the members of a corporation reside abroad does not incapacitate it from holding real estate, if otherwise qualified,

8. In proceedings against foreign corporations, process may be served upon any officer, agent or engineer, either personally or by copy left at their office, and, when they have an office in any county of this state, service may be had upon any officer or worst within the country. agent within the county,

All buildings, mines, iron-works, bridges, etc., are liable to a llen for the materials used in their erection, alteration, improvement or repair, or furnished under centract with the owner or his contractor, but no lien for repairs may be filed without notice of intention to file the same, given when the work begins, nor for less must standard the best may be filed without notice of intention to file the same, given when the work begins, nor for less must standard and the same given when the work begins, nor for less must standard and the same properties of the same in the work is a tree-saying for reasonable use. If materials are samplied under a contract made with a tenant, the written consent of the owner is needed to make the dealin valid. The hen takes precedence of every other incumbrance attaching after the commencement of the building. If a husband erects a building on his wife's land with her must be filed in the office of the probonotary of the court of common plens within six months after the materials were supplied. Such etain must set forth the name of the len chimant, of the owner, of the contractor, architect or builder (if the contract was made with such persons, the amount elaimed, the materials furnished, the dates when humished and the prices as shall be sufficient to identify it.

The lien is enforced by the issuance of a writ of scire facias to compel payment by sale of the property. This may be done within five years from the issuance of the writ the lien is lost. Agreements between the same of the writ the lien is lost. Agreements between the same of the writ the lien is lost. Agreements between the large to the written he lien is lost. Agreements between the large story of the contractor, and how the contractor is not bound by sell stipulation unless buggees to it in writing.

[Accent Teles and the original was many local laws re-

out a sub-four actor is not bound by such stipmation times are the state of the state of the such as the such as the such as the spectrum of the state of the such as the such as the such as the spectrum of the such as the statement of these many and varied local laws would serve no useful purpose. [1]

### MILLIDAMS.

By the common law every person had a right to have a mill on his war land, so long as he did not injure his neighbors and did to persons would glands alphanian maximable streams, which are public highways texcept the belaware, Ledugh and Schuykill, the right to have mildams adjoining their own lands, and lead off as much water as they need, but not so as to impede naviga-tion or the passing of fish, nor so as to infringe private rights.

The constitution forbids the passing of any local or special

The constitution forbids the passing of any local or special laws regulating labor or mining.

COSSTRUCTION, I. EVERY mine must have two outlets, at least one hundred and fifty feet apart on the surface, and not more than twenty persons may work in said mine at one time before the second opening is made or after one of them has been abandoned. If necessary one of said openings may be made on adjoining lands, the damages to be assessed by viewers appointed by the court of common plens. In bituninous mines worked by drifts, the said openings need not be more than twenty-tour feet apart. In slopes of anthracite mines, having an inclination of

not more than fifteen degrees, separate traveling ways must be provided, free from gas or steam.

- 2. Shafts and slopes must have speaking tubes from top to bottom.
- 3. Machinery must be fenced or protected by railing or other-
- 4. Self-closing doors for purposes of ventilation, and safety holes to protect miners from passing ears, must be provided. 5. Convenient wash-houses must be provided near the entrance for the use of workmen.
- 6. Anthraette mines in which more than seventy-five persons are employed must be divided into two or more districts; under-ground openings of abandoned workings in said unines and the tops of shafts must be properly fenced off, and owners of adjoin-ing lands, must leave sufficient pillars of coal in each vein on the dividing line.
- DUTIES OF OWNERS, ETC.—1. It is the duly of owners, operators or superintendents of mines to make animal reports of progress to the mine inspectors, and to report all changes in workings which affect the safety of miners; in the anthracile coapiled such reports must be made immediately; in the bituminous, once in every three months.
- 2. To have rules of conduct, approved by the mine inspector,
- posted in conspicuous places,

  3. To drive bore-holes in front and on sides when approaching abandoned or dangerous parts of mines.

abandoned or dangerous parts of mines.

4. To provide safety lamps.

5. To provide safety lamps.

6. The owners, etc., of anthracile mines must provide railings in dangerous places, props and funbors necessary to the safety of miners, and, in certain mines, ambulances in addition to the stretchers; moreover they must not employ anyone as a miner who has not a certificate of competency from the miners' examin-

MISNELS SUBSECTORS.—The anthracite and bituminous ceal fleths are each divided into eight districts, for each of which districts an inspector is appointed by the governor after examination and recommendation by a board of examiners appointed for that purpose. Said inspectors hold office five years in the authracite field and four in the bituminous.

The duties of inspectors are (4) to examine mines and colleries, (2) to attend inquests, (3) visit places of and investigate accidents, (4) see that all mine laws are observed, (5) keep a record of all visits to mines, (6) take care of all maps, plans, records and other property of the state, and (7) make annual reports to the secretary of internal adairs.

lary of internal adalts.

Rosses AND Forements, In all bituminous coal mines competent mining and fire bosses, and in anthracite coal mines mine foremen, must be employed. The said mining bosses must have certificates from the mine inspector and two other examiners; the said fire bosses must have certificates from the inspector, and the certificates from the inspector, and the certificates from the secretary of internal adapts, of qualification and service, turnished after examination by a board of examiners appointed for the purpose.

The said bosses, foremen or assistants, as the case may be, have charge of the inside workings of mines. It is the duty of foremen and mining bases a ready we clarge mistarchic hispertor; of foremen and fire bosses to make dany examinations of all the workings.

ings.

In the anthracite region there must also be outside foremen in charge of breakers and outside workings.

Ways. The owners, operators or superintendents of all numes in which more than ten persons are employed must provide maps or plans on a scale of not more than one hundred feet to the hunds, copies of which must be kept at the office of the inspector, and at the cofficery for the inspection of miners, upon which maps and copies all changes must be noted every six months. When any part of a mine is about to be abandoned a map thereof must be furnished to the inspector.

WEXTRACTION, added to the perminute in lituations are two hundred embire feet per minute in lituations and two hundred embire feet per minute in anthracite coal mines and workings must be provided for each person employed. Abandoned mines and workings must be kept free from gas and water as far as possible.

and workings must be kept free from gas and water as far as possible, possible, or THE (O) tery. Any court of equity may, on perform, lessee of the feet of the country of the interest of the coupleyer, and are preferred and anount of Seo are a line upon real and personal property to the extent of the interest of the coupleyer, and are preferred and such claim cannot be come a lieu upon real estate, unless field in the profition cannot be come a lieu upon real estate, unless field in the profition cannot be come a lieu upon real estate, unless field in the profition of any of the country of the count

for the benefit of creditors may usuay a vision for such than thirty days.

MINING AND QUARKAING COMPANIES. — No mining or quarry-ing company may carry on any other business than that for which it is incorporated.

COAL LEASES. According to recent decisions a lease of coal is virtually a sale, and the lessee owns the hole from which such coal has been taken.

COALANY STORES.—Mining companies are forbidden to be in-

terested in or carry on general supply stores, called "company stores," or to lease or sell flue right to keep the same on their property. No contract may be made obliging employes to trade property. No at such stores.

DAMAGES.—Parties injured, and in case of death the widow and lineal heirs of said parties, have a right of action for injuries caused by the violation of mining laws against the party violating

# RHODE ISLAND

# CORPORATIONS.

How Former. Corporations are created by act of the general assembly of the state; but the general assembly cannot create any corporation for any other than religious, literary or charitation of the proposes until a bil has been presented and another election for members of the general assembly has taken place, and after public notice of the pendency of such bill, of the purpose of such corporation, and of the place where it is intended to be estable or public notice of the pendency of such bill, of the purpose of such corporation, and of the place where it is intended to be estable or publication in some newspaper in the town or county for three weeks successively preceding the first Wednesday in April after the presentation of the bill to the legislature.

Taxes Ox.—Corporations other than those for religious, literary or charitable purposes or military or fire companies cannot be organized under the charter granted by the legislature until the pettiloners for the charter pay into the state treasury situation one-benth of one per cent, upon all capital stock over situation of the billion of the control of the con

selling shares for non-payment of assessments, and managing their own adairs.

DURATION OR—Corporations continue for the term for which they were chartered by the legislature, and for three years thereafter for the purpose of closing up their affairs.

FRANCHISE.—The franchise of a corporation may be seized and sold on execution maler a final judgment if the corporation be one which is entitled to collect talls or other like revenue, and in the event of such sale the right to collect such toil passes with the franchise to the purchaser. The franchise may be redeemed within three months after such sale by payment of the purchase price with interest at twelve per cent.

FIGURERY STOCK.—The issuing of trandulent stock by any officer or agent of a corporation is a crime punishable by fine of not less than \$1,000 or imprisonment not less than one nor more than ten years.

Itan ten yes sames.

INSOLVENT.—If a corporation is insolvent and neglects to attend to its concerns, or its effects are in danger of being lost, or if it has done anything which is ground for forfeiture of its charter, the supreme court may on petition of any stockholder or creditor decree a dissolution of the corporation and appoint a receiver of its grounds.

its properly.

WAGES TO EMPLOYES.—Every corporation and appoint a receiver of WAGES TO EMPLOYES.—Every corporation and city must pay the employes every week all wages earned by them up to within nine days of such payment, under penalty of fine not less than \$100 or more than \$1,000.

### LIEVS

The real estate built upon, repaired or improved at the request of the owner thereof is phelged for the payment of materials furshed therefor, subject only to such incumbrances as were outstanding when the work commenced. If the real estate belong to a married woman and the request is made by the husband, the wife's written assent must be obtained. If the person making the request be a tenant, the leasehold interest is all that can be held subject to the Ben. Sub-contractors have the same right of the first of the contractors and the subject of their chain on the not of the work. The contractors have the same right of the land is situated within stay days after the materials are placed on the land. Contractors must file their claim willin four months after default in payment under a written contract, or within six months after the work is commenced if the contract be oral. The claim must be verified by affidiavit, and must contain a description of the property on which the lien is a must contain a description of the property on which the lien is the name of the owner and contractor (if any), the prices, the credits (if any), and the amount owing. The len must be enforced at the fiext term of the superior court of the county after being filed. Mortgagees, owners and all other persons interested must be made parties to the suit.

# SOUTH CAROLINA

Compiled by Elliott & Townsend, Attorneys at Law. Beaufort, S. C.

### CORPORATIONS.

Under the general law, two or more persons desiring to form themselves into a private corporation for the purpose of earrying on in this state any manufacturing, mining, industrial labor, inmigration or other business, except for rullroad purposes, may themselves, setting forth!

1. The names and residences of the petitioners.
2. The name of the proposed corporation; the place at which it purposes to have its principal or only place of business; the general purpose of the corporation, and the nature of the inshess which it purposes to do.

3. It is to be divided, showing the par value of each share, it is to be divided when it is desirable to set forth in the organic law.

Upon filing the declaration as above the secretary of state shall issue to the parties or any two of them a commission constitut-ing them a board of corporators, giving them authority to open books of subscription to the capital stock of the proposed company, etc

painty, etc.

Subscriptions to the capital stock shall be made payable in noney or in labor, or in property at its money value, to be maned in the list of subscription. When not less than fifty per cent, of serious contents, the board of corporators shall call the subscribers to serilors, the board of corporators shall call the subscribers to gether, a majority of whom being present shall proceed to the organization of the company by electing a board of directors from among themselves of not less than three nor more than nine members.

The board directors shall elect one of their number to be a fine board of the eventive officer and such necessor as they nay

The board of directors shall elect one of their number to be president or the executive officer, and such person as they may see it as secretary. Upon the completion of the organization of the company, and the payment to the treasurer thereof of at least twenty per cent. of the capital subscribed with security for the remainder of the subscription, the board of corporators shall in writing over their signature certify the same to the secretary of state, who shall issue to the company a certificate of incorporation, a copy of which everticates shall be field and recorded hydrogeneous control of the c \$1,000,000.

\$1.080,000.

Corporations organized under this general law for mining or manufacturing purposes shall have power to construct and operate a railroad, transway, turnpike or canal for their own use and purposes to and from their works or place of business, or to coinnect with some navlgable stream or some existing railroad, turnpike or public highway, not to exceed ten miles in length, and shall have the right to condemn for the use of such road the right of way in lands over which the road may pass, on payment of just compensation to the owner thereof, to be determined in of just compensation to the owner thereof, to be determined in each state of the control of the control

FORFEITURE.—Any corporation organized under tims general and still cases to exist by non-user of its franchises for five years at any one time.

Frock Holdders.—Each stockholder in any such corporation shall be jointly and severally lable to the creditors thereof in an amount, besides the value of his share or shares therein, not exceeding five per cent, of the par value of the share or shares held by such stockholder at the time the demand of the creditor was created, provided that such demand shall be payable within one year, and that the proceedings to hold such stockholder lable be commenced within two years after the debt becomes due and while he remains a stockholder therein, or within two years after the shall have ceased to be a stockholder. This liability tokes not apply where, by special law in reference to shall be imposed.

SPECIAL ACT, AMENDMENTS AND REJEAL—Corporations may also be organized under a special act of the general assembly, All charters under the general law and any charter granted, renewed or amended by act or joint resolution of the general assembly (unless such act or joint resolution or repeal.

Picty AND PROCEEDING SPECIAL ACT, AMENDMENTS AND REJEAL—Corporations may also be organized under a special act of the general assembly (unless such act or joint resolution of the general assembly (unless such act or joint resolution in express terms declare the contrary) are subject to amendment or repeal.

Picty AND PROCEEDING SPECIAL ACT, AMENDMENTS AND PROCEEDING FROM the process terms declare the contrary) are subject to amendment or repeal.

- has power:

  1. To have succession, by its corporate name, for the period limited in its charter, and, when no period is limited, in perpetuity
  - To sue and be sued.

- 2. To see and be sued.
  3. To see a common send and to after the same at pleasure.
  4. To hold, purchase, lease, mortgage or otherwise dispuse of and convey such real and personal estate as is finited by its charter, and, if not so limited, such an amount as the business of the corporation requires.
  5. To appoint such subordinate officers and agents as the business of the corporation requires, prescribe their duties and fix their compensation.
  6. To make by-laws, not inconsistent with any existing law, for the transfer of its stock, the management of its property, or 7. To declare and react, by appropriate by-laws, a lien on the stock of any stockholder in such corporation, for such sum as the stockholder is or may be indebted to the corporation for his subscription to stock therein.

A lien is given upon the property, and the land upon which it is situated, to anyone who furnishes materials for the erection or repair of any building or structure or vessel, with the consent of the owner or person acting for him, for the value of such materials, if the improvement is upon land belonging to a married woman, her consent should be obtained. Contractors must serve notice on owner, if such owner is not the purchaser, of their intention to furnish materials, specifically describing them, and that a hen will be claimed. The owner, if other than the party making the contract for limprovements, may then advise, by written notice, contract for limprovements, may then advise, by written notice, contract for limprovements, may then advise, by written notice, contract for limprovements, may then advise, by written notice, contract for limprovements, may then actives, which is the contract of the property of the contract of common please and a description of the property on which a lien is claimed, must be filed in the office of the clerk of the court of common please within ninety days after the materials are furnished. To enforce the lien, a suit must be commenced thereon within sky months after the materials are furnished. The enforce the lien, a suit must be commenced thereon within sky months after the materials are furnished. These liens cannot afteet the lien of a mortgage existing and recorded at the time of the contract. and recorded at the time of the contract.

## MINING.

The statutory law refers to the management and protection of the rights and interests of the state in the phosphate rock and phosphate deposits in the navigable streams of this state and in the marshes thereof.

BOARD OF PHOSPHATE COMMISSIONERS. A board of phosphate commissioners is composed of the governor, attorney-general and two elitzens of the state, the last two to be appointed by the governor, attorney-general and comptroller-general. The governor is chairman of the board, and three members constitute a uporum to do business. A secretary is a principle of the proposed of the governor ground the control of the rights and interests of the state in such phosphate rock and deposits, everythan the eventual in such phosphate rock and deposits, everythan the comptroller-general receives the reports of rock mined and dug and the royalty paid into the state treasury.

LICENSES. The board is althorized to grant to all citizens of the state and bodies corporate applying for the same heeness granting a general right to dig, inhie and remove phosphate rock and phosphate deposits from all the navigable streams, waters allowed the state and not previously granted. Such licenses hough to the state and not previously granted. Such licenses is required to give a bond, with security, in the phase of the state and to pay a bond, with security, in the phase of the state and to pay a royalty to the state in the making of the proper returns and payment of royalty. The board is authorized to make returns of the number of too mined, and to pay a royalty to the state not to exceed \$2 per ton for all rocks so did or mined, provided six months in other be given to mined, and the vessels, decides or appliances used by him for such purpose are forfeited to the state.

# SOUTH DAKOTA

Compiled by MARTIN & MASON, Attorneys at Law, Deadwood, S. Dak,

### CORPORATIONS.

FORMATION OF MINING.-Articles of incorporation must set

Name of the corporation.

forth:

1. Name of the corporation.

2. Purpose for which it is formed.

3. Place where its principal business is to be transacted.

3. Place where its principal business is to be transacted.

4. Perm for which it is to exist, not exceeding two types of the control of such of the control of such of the control of such officers, and their qualifications.

6. If there be a capital stock, its amount and the number of shares into which it is divided; they must be subscribed by three or more persons, one-titud of winon must be residents of this state, and acknowledged by each before a notary public of this state, and acknowledged by each before a notary public of this state, and acknowledged by each before a notary public of this state, and acknowledged by each before a notary public of this state, and acknowledged by each before a notary public of this state, and acknowledged by each before a notary public of this state, and that such corporation is not being formed for the purpose of enabling several corporations to avoid the provisions of Chapter CLIV. Laws of 1800, declaring certain combinations or trusts unlawful.

4. The combinations or trusts unlawful.

4. Even the filing of the articles of incorporal certificate thereof, and thereign the person or persons signing the articles, and their successors, become a body corporate.

5. By L. Ws. By-laws must be adopted within one month after the filing of such articles, and may provide for:

6. The number of stockholders or members constituting a provide for the property of the provided provided within the provided provide

The mode of voting by proxy.
Time of annual election of directors, and mode and manner of giving notice thereof and qualifications.

Compensation and duties of officers,
 Manner of election and tenure of office of all officers other than the directors.
 Suitable penalties for violations of by-laws not exceeding in any case \$100 for any one offense.
 All by-laws must be certified by a majority of the directors and secretary of the corporation, and capied into a book of by-laws, and may be amended by a vote of two-thirds of the subscribed stock.

ELECTIONS.—The directors of the corporation must be elected annually by the stockholders, and if no provision is made in the by-laws for the time of election, it must be held on the first

Stock.

Electrons.—The directors of the corporation must be elected annually by the stockholders, and if no provision is made in the by-laws for the time of election, it must be held on the first Toesday in June.

Player of Michigan election, it must be held on the first Toesday in June.

Player of Michigan provision is made in the by-laws for Michigan positions of the thirth out the state at any place within the United States, and to hold any meeting of the stockholders or directors of the corporation at such office, but every such corporation must have its main office for the transaction of business within this state, to be also designated in such articles of incorporation.

LARIMLYN OF STOKKHOLDERS. Stockholders shall be jointly to the tome of the corporation, which lability may be enforced against any stockholder by an action at any time after an execution against such corporation, which lability may be enforced against any stockholder by an action at any time after an execution against such corporation shall be returned not satisfied, provided but if any stockholder by an action at any time after an execution against such corporation shall be returned not satisfied, provided such action be commenced within four months; and provided that if any stockholder by an action at any time after an execution against such corporation shall be composed by the debts of any creditor; he therefore shall be composed by the debts of any creditor; he will be a such as a such

Every miner, or other person, who, at the request of the owner or owners, or his or their agents, of any lode, mine or deposit, hearing gold, climabar or copper, or of any coal bank or mine, or at the request of any contractor or sub-contractor, shall perform any labor whatever on said mine, or furnish any thinber, rose, malis or any other nativals for dispersion which any thinber, rose, makes or any other nativals for expecting any winding any thinks, any kind of materials for erecting any windings, whims, or any other lossing apparatus or machinery, or for any car track, cars, tunnels, dirits or openings thereon, or shall perform any labor or any tunnel, shall have a lien on such lode, nine, deposit, bank or tunnel, to secure the payment of the same.

Every such miner performing any work or furnishing any materials under a contract express or implied between the owner and any contractor working on such mine may deliver and any contractor working on such mine may deliver or superintendent, an attested account of the amount and value of the work and labor thus performed, or of the materials this furnished, and remaining unpaid, and thereupon such owner or list or their agent shall retain out of the first subsequent payments to such contractor the amount so the; it shall be the daty of such owner to turnish such contractor with a copy of such papers, and if such contractor shall not within ten days after the receipt of such papers give such owner with notice that he interest of such papers give such owner with notice that he interest of such appears are such contractor when capy of such papers, and if such contractor that he material subsequent payments to such contractor the amount so the; it shall be considered as assenting thereto, and such owner or

owners may pay the same when it becomes due, and for that purpose may deduct the amount out of any moneys due such contractor. The amount which may be due from any contractor to lis creditor may be receivered from said owner or owners by the creditor of said contractor in an action at law to the extent in value of any balance due by the owner or owners to his or their contractor under the contract with him at the time of the hotter contract or under the same.

Any person entitled to such a Ben shall make an account of the tiens of above or material furnished, and, after verifying the same, shall within sixty days after the time of completing such labor, or minishing the last item of material, file the same in the office of the clerk of the circuit court of the county or subdivision in which the mine is situated; and also fleat the same time a correct description of the property to be charged with said len, and work, or furnishing the last item of materials, and for one year thereafter, operate as a lien upon the property charged in such description. When any work or labor has been performed, or materials humished as aforesaid under a written contract, the same, or a copy thereof, shall be filed with such account and description. All such liens shall be concurrent liens.

In all actions to enforce any such lien, all persoos claiming liens upon the property charged shall be made parties, and the The forecome lien as applies to oil wells or springs, iron and lead mines as well as all other mines not before specified so far as the same may be applicable.

MHALDAMS.

### MILLDAMS.

Any person desiring to erect a milldam upon his own land, and deening it necessary to danage by overflowing, or otherwise, real estate not owned by him, shall present to the judge of any court of record in the county a petition setting forth the place where said dam is to be located, the height to which it will be applied, etc., whereupon the judge shall appoint three roomsissioners, who shall, an appeal heis from such assessment to the court aforesaid by any party interested, excepting a petitioner, at any time within thirty days from the time of the notineation of the fling of the commissioners' report. The appellant shall file an appeal bond in double the amount of the assessment appealed from, in the usual terms. Upon payment of the danages assessed, judgment shall be entered declaring the right to erect and maintain a millidam according to the petition, and shall be and remain in the petition of the petition, and shall be and remain in the petition of the petition, which in the years, or to gate the mill and dam shall be destroyed, the petitioner's right is lost by a failure to rebuild in one year; after such destruction, and finish in three years, or by failure to keep such mills in operation tor one year and apply the water power hereby created to the purposes stated in his petition, within three years; or, in case the mill and dam shall be destroyed, the petitioner's right is lost by a failure to keep such mills in operation tor one year after such destruction, and finish in three years, or by failure to keep such mills in operation tor one year after you can discontinuous discontinuous damages occasioned by the erection and maintenance of the uillidam shall be brought within two years after the creetion of sand dam, provided that on and lodding government land under the pre-emption laws, until a patent for the land overflowed shall have been issued.

Stze.—Mining claims shall not exceed fifteen hundred feet along the vein-by one hundred and fifty feet on each-side of the center

thereot.

RECORD.—The discoverer of a lode shall, within sixty days from
the date of discovery, record his claim in the office of the register
of deeds of the county in which such lode is situated by a location
certificate which shall contain:
1. The name of the location
2. The name of the location of the discovery of the discovery
3. The date of location.
4. The number of feet in length claimed on each side of the dis-

overy-shaft. The number of feet in width claimed on each side of the

covery-shaft,

5. The number of feet in width claimed on each side of the claim or lode,

6. The general course of the lode as near as may be.

Any location certificate which does not contain the foregoing requirements and such description as shall identify the claim with reasonable certainty shall be void.

5. See Fig. 19. The Cayrious - 1. Before thing such location certificates and such discovery shall sufficient to show a well-defined inheral vein or lode, within sixty days from the time of the uncovering of the lode.

2. By posting at the point of discovery on the surface a plain sign, or notice, containing the first five requisites of the location certificate above given.

3. By marking the surface boundaries of the claim by eight substantial posts bewed or blazed on the side or sides facing the claim and plainly marked with the name of the lode, and the claim substantial posts bewed or blazed on the side or sides facing the claim and plainly marked with the name of the lode, and the claim and with the ground, or, when necessary, in a monument of stone, to wit, One at each end of the lode.

Heffer or WAY.—All mining claims shall be subject to the right of way of any ditch or flume for mining purposes, or of any transway, or pack trail, provided such right of way shall not be excercised against any location duly made and recorded and not abundanced prior to the establishment thereof, without consent of owners, except by condemnation.

rertificate was defective, erroneous, or that the requirements of the law had not been complied with before filing, or shall be despend of changing his surface boundaries, or of taking in any part of an overlapping claim which has been abandoned, such locator, or his assigns, may file an additional certificate, subject to the foregoing provisions; provided that such re-location does not interfere with the existing rights of others at the time of such re-location, and no such re-location or the record therrof shall preduct the claim not such re-location or the record therrof shall reduce the claim such re-location or the record therrof shall preduce the claim such re-location or the record therrof shall shall be claim. Annual work is the same as that of the United States statutes.

Annual Work.—Requirement as to annual work is the same as that of the United States statutes.

RE-LOCATING ABANDONED CLAIMS.—The re-location of abandaries in the same nature as if it were the location cloid claims shall be by sinking a new discovery-shaft, and fixing new boundaries in the same nature as if it were the location critical depth to disclose the vein and creet new or adopt the old boundaries, renewing the posts if removed or destroyed. In either case, a new location stake shall be erected. In any case, whether the whole or a part of an always of the provided or any part of the new location is located as abandoned of the provided of the provided as abandoned of the provided of the provided as a dandoned of the provided of

whole or any part of the new location is located as abandoned property.

ONE CERTIFICATE, ONE LOCATION.—No location certificate shall claim more than one location, whether the location be made by one or several locators; and if it purport to claim more than one location, it shall be absolutely void, except as to the first location therein described, and if they are described together, or othat it cannot be told which location is first described, the characteristic of the control of

APEX AND DIP.—South Dakota statutes are the same as statutes of the United States on all those subjects not hereinbefore digested.

### OTTARRIES

Quarries located on other than public lands of the United States are governed by the ordinary rules applicable to real estate.

### REAL ESTATE.

Sluice boxes, finnes, hose, pipes, rallway tracks, cars, black-smith shops, mills, and all other machinery or tools used in developing or working a mine are to be deemed affixed to the mine, and are real estate.

# TENNESSEE

Compiled by Burch & Waller, Attorneys at Law, 31-33 Cole Building, Nashville, Tenn.

FORMATION OF. - Articles of incorporation must set forth:
1. Names of five or more incorporators not under twenty-one

years of age.

Name of the corporation and the purpose for which it is

formed.

2. Name of the corporation and the purpose for which it is formed.

formed.

formed.

It is signatures of said five or more emporators must be asknowledged, or any one or more signatures proved by one with the same of the corporation of the corporation is the corporation and the corporation is the end of acknowledgement or probate to be entered on the books of his office, and also certified on the instrument, which instrument with the application, the acknowledgment or probate, shall be registered in the register's office of the county where the main business of the corporation is to be conducted, the fact of registration to be by the register holorsed one or attached to said instrument with the remainded of the corporation is to be conducted, the fact of registration to be by the register holorsed one or attached to said instrument transmitted to the secretary of state, who shall copy the same in a book to be kept for that purpose, with the probates, acknowledgments, certificates of clerk, register, etc. The secretary of state shall then certify in the original instrument that the same has been registered in his other, to which certificate shall be attached the complete of the certificate or said original instrument, and the registration of said secretary's certificate, and the fact of the same shall not be in any legal proceeding collaterably injected.

body points and corporate is nearly decreed competer, and the results in the few shall not be in any legal proceeding collar-crafts in the subscription for or the transfer of stock, fix upon the amount of capital to be invested in the enterprise and the division of the same into shares.

Differentials, flower the values cast, each share representing a vote. The term of all others may be fixed by by-laws, the same, however, not to exceed two years.

Differentials, Liability Off.—No loan of money shall at any time he made to any stockholder, and any such loan shall render the directors consenting thereto individually liable for the amount thereof. If the indebtechess of said temperatures consenting thereto shall be individually allowed for the amount thereof. If the indebtechess of said temperatures consenting thereto shall be individually liable to the creditors for said excess. If the directors declare and pay any dividend when the company is

insolvent, they shall be jointly and severally liable to creditors for the amount of dividend thus declared. But any director may avoid liability by voting against the dividend or by filling his ob-jection in writing as soon as he ascertains the dividend has been

Place of Meeting. The stockholders may by three-fourths

in the control because in solvent and a processing and policy of the control because in the control because insolvent.

the corporation becomes insolvent.

FOREIGN CORDORATIONS, Every foreign corporation desiring to carry on its business in this state must first lile in the office of the secretary of state a certified copy of its charter or articles of the supporation, and must cause an abstract of the same to be recorded in the office of the register of each county in which such corporation proposes to carry on its business or to acquire state. Nevertheless the creditors who may be residents of this state shall have the priority in the distribution of assets over all simple contract creditors being residents of any other country or countries. And also over judgment creditors for all debts which were made by said corporation before the readition of such valid judgments. Upon the failure of any such corporation to comproperty within this state within one year after filling its said charter, all rights and privileges shall lapse and become void.

### LIENS

All employes and day laborers of any corporation have a lien on the employer's property for wages or compensation in arrears three months. This lien is enforcedible by attachment or other-wise as in other cases. It proceedings to enforce are not begun within three months from the time the lien attached, it will be lost. The rights of bona fide purchasers, and persons having stall diens at the time proceedings are begun, are superior to this lien. Employees shall not be compelled to purchase goods from company's store.

this lien. Employes shall not be compelled to purchase goods from company's store.

A flen is given to whoever furnishes materials, by virtue of a special contract with the owner, for the construction or repair of a house, or the furnishing or creetion of flytures, machinery or a house, or the furnishing or creetion of flytures, machinery or a house, or the furnishing or creetion of flytures, machinery or vendee who holds subject to a wender's hen, and the mortgages or vender do not object within ten days after being notified in writing, the lien for materials will take priority over the mortgage or vender's lien. If the material be furnished for an improvement on hands owned by a married woman, the continuous be in writing and signed by her, or else the material-man notice. The lien covers the building or improvement and the tot or land on which it is constructed, and takes precedence of all unumbrances created after the material is furnished, Subscontractors must notify the owner in writing, within thirty days after material is furnished, that a ten is chaimed, and this will continue their hen for ninety days from date of such notice, provided a train and by him recorded in the "trust blook." The liens of subcontractors can in no case exceed the amount which the owner of the roughal contractor continues for one year and until the fluid decession of a suit to enforce it Brought within such year he a court of record of the county where the building or haprovenend is situated.

### MILLDAMS

The county court of each county has control of the erection of

The county court of cach county has control of the erection of milliams under such conditions, restrictions and limitations as it its discretion may seem proper. No county court can permit a milliam to be so constructed as to interrupt or in any way injure or impair the navigation of such streams as are naturally navigable or as have been declared to be so by law.

Any person desiring to construct a milliam shall present a petition to the county court of the county where the dam is to be outly not not not not consider the dam of the first day of a quarterly session setting forth the natural disject of the dam of the dam of the dam of the first day of a quarterly session setting forth the natural disject of the dam of the dam of the dam of the dam of the stream, his petition shall be accompanied by the written consent of the owner or owners of the land, which consent shall be reported by two witnesses, to the same. Notice of the intention to present the petition shall be set up at the door of the court-house, at the same time at which at is presented. At the next succeeding term the county court shall hear and determine upon the application and fix the term of time for which the right or privilege shall be enjoyed.

18 scapable in the ordinary stage of the water of being navigated both ascending and descending by such vessels as are usually imployed for purposes of commerce. A stream to navigable in a legal sense may yet be navigable in the continuous acceptation of the term, as when in certain stages of the water it may have sufficient depth for flatboats, rafts or vessels of light draft. If a stream be navigable in the privalent depth for flatboats, rafts or tessels of light draft. If a stream be navigable in the privalent of the stream. The bed of the stream is in the ripartan owners, but the public have an easement or the purposes of transportation and commercial intercourse. If the stream be not navigable, the ripartan owner's title extends to the center of the stream, both as to right of property and use o

The owner of land through which a non-navigable stream passes may from the water from its channel for his wes, provided be returns it of the channel before it leaves his land. And such a person may have an action against an owner below him on the stream for interrupting such use of the water by erecting a dam so as to overflow his property. A right to permanently overflow the land of another is a hereditament, and a conveyance of side

thereof must be in writing.

XTISANCS.—It is a justile missance to obstruct or impede
without legal authority the passage of any navigable river or col-lection of water. It is a public missance to corrupt or render un-wholesome or impure the water of any river or stream or pond to the injury or prejudice of others.

MINING.

RIGHTS AND POWERS, SPECIAL—Mining corporations shall have the authority to condemn the right of way necessary for the transaction of the corporate business, not exceeding thinty feet.

All mining corporations, threefourths of the stock being represented and cast in the affirmative, may subscribe for, purchase, hold or dispose of stock in any railroad company whose line of road shall be so near as to be used by them in carrying on their mercessary operations. For the purpose of raising the money to pay for such stock, such corporations are authorized to indoes said mining companies are authorized to mortage their franchises and estates, real and personal, to secure the payment of bonds so industred or issued as aforesaid.

SYTEMBENT ANN MALA. Annually during the month of Janary, the president shall make and publish in a newspaper printed in the county where the predict may the president shall make and publish in a newspaper printed of the carest county where a newspaper is printed, a sworn statement, showing the amount of capital stock and the existing of a false statement to be printed as aforesaid shall render all persons consenting thereto individually liable to all persons dealing or trading with said company on the faith of said fraudulent.

ing or trading with said company on the faith of said fraudulent statement.

INSPECTION OF MINES. One mme inspector for the entire state shall be appointed by the governor of the state, whose term of office shall be four years. He shall be a practical miner of not less than live years of experience in mining, having a full and practical knowledge of the different systems of working and venithing coal mines and of the nature and property of all nod long that go and mines and of the nature and property of all nod long the city of Chartanooga, together with all maps and plans of all mines being worked in the state. Said inspector shall annually on or before the 1st day of January make a report to the governor of the state of the condition and operation of the mines in the state. Said inspector shall mines that are being worked once every three months. If any loss of life should occur by accident in any of the mines of the state or any serious general many of the mines of the state of any serious general many of the mines of the state of any serious accident should occur in sud mines, the agent or person operating the same shall immediately notify the inspector. The shall insure that are being what it is not the state of the condition and only only the inspector. The proposition of the state of the state of the condition and who shall make a report of the verdet to the inspector. Therenselses as will prevent a recurrer e of the accident.

MAYS OF MINES. The agent or woner of every coal mine shall furnish an accurate map of the plan of workings of said mine to the inspector. On the ist day of January and June in every year a statement of the plan of the progress of the workings of said mine to the inspector. On the ist day of January and June in every year a statement of the plan of the progress of the workings of said mine to the inspector. On the ist day of January and June in every year a statement of the plan of the progress of the workings of said mine to the inspector. On the ist day of January and June in eve

OFTLETS OR ESCAPES. There shall be at least two separate outlets separated by natural strata not less than one hundred and fifty feet in breadth, by which shafts or outlets distinct means of ingress and egress are always available to the persons employed in the mines.

in the mines.

VENTILATION. The owner or agent of every coal mine shall provide an adequate amount of ventilation and not less than fifty five entile feet per second of pure air for every fifty men at weak, and as much more as circumstances may require. The ventilation may be produced by air pumps or other appliances, but in to case shall a furnace be used inside of the mine where the coal breaker and clutte are built directly over and covering the top of the shalf, for the purpose of producing an upeast of air.

MINING ROSS. Every agent or owner of coal mines shall compared to the shalf, for the purpose of producing an upeast of air, and all the shall compared to the shalf over the ventilating apparatus, etc., and all things pertaining to the safety of the miners. It is his duty to measure the ventilation at least once a week and report to the inspector once a month.

SIGNALING TUBES, ETC. The owner or agent of every ceal mine shall employ suitable appliances for signaling from top to bottom of the shaft and safe machinery for lowering or holsting

purposes, Boys. No boy under twelve years of age shall work or enter

BOYS. No boy under twelve years of age shall work or enter any mines. Violations of any of the above provisions will satisfied the agent owner of the mine to a fine, and upon application of the agent of the mine to a fine, and upon application of the property of the pro

FURTHER DUTIES OF CHECK-WEIGHMAN.—He shall credit cach miner with all merchantable coal or other minerals mined by him, on a proper sheet or book kept by him for that purpose. When differences arise between the check-weighman and the agent of the mine, the same shall be referred to the mine inspector of the district, who shall settle the matter.

PEXALTIES FOR FALSE WEIGHING.—Should any weighman agent or check-measurer knowingly or willfully adopt or take more or less pounds for a bushelor at on than is now provided by a constant of the scales of constant of the scales of constanting of the scales of constanting of mislengency.

guilty of a misdemeanor.

### QUARRIES.

The Formation of Quarrying Corporations.—The charter granted to quarrying corporations and their general powers are similar to those granted to mining corporations. The regulations with reference to liabilities of stockholders and directors, the publication of statements, liabilities for false statements, capital stock, condemnation of property for right of way, place and time of meeting, are the same as in the case of mining corporations, the only difference between the power of a mining and quarrying corporation being that the power to subscribe or purchase stock in any railroad company is withheld from quarrying corporations.

### WAGES.

All persons, firms, companies or corporations engaged in mining coal, ore or other mineral shall pay their laborers and employes the amount due them for their work in lawful money of the United States or by cash orders, and shall adjust accounts at least once in every thirty days. It shall not be lawful for them to issue for payment of labor any order or other paper whatever, miless the same purports to be redeemable for its face value in lawful money of the United States by said person, company or expressions. corporation.

## TEXAS

# CORPORATIONS.

Corporations are either public or private. A public corporation is one that has for its object the government of a portion of the state. Private corporations are of three kinds; First, religious, second, corporations for charity or benevolence, and third, corporations for profit.

CREATION OF CORPORATIONS. -Private corporations may

permitted for profit.

(1983-1980) of Correct Attribus.—Private corporations may be created by the voluntary association of three of more persons for he purposes and in the manner hereinafter mentioned. The purposes are—almost anything which is not unlawful. A charter must be prepared setting forth:

1. Name of corporation.
2. Purpose for which it is formed.
3. Place or places where its business is to be transacted.
4. Term of its existence.
5. Number of its directors or trustees and the names and resistance.
6. Amount of its explained appointers for the first year.
6. Amount of its explained appointers for the first year.
7. The charter of a bridge or ferry company shall also state the stream to be crossed.
8. The charter of a road company must also state: First, the kind of road intended to be constructed; second, the places from and to which the road is intended to be run; third, the counties through which it is infended to be run; thurd, the continest through which it is infended to be run; thurd, the estimated length of the road.

All least, must be citizens of this state, and must be neknowledge before some officer authorized to take neknowledgment of deeds shall be field in office of secretary of state, recorded and kept in his office; a copy thereof under state's seal shall be evidence of the corporation; its existence daires from date of filing. Corporations may amend or change their charters by causing the constitution or laws of this state.

All charters, or amendments to charters, under this chapter, 2, title XN, shall be subject to the power of the legislature to after, effort and retained and seal of the corporation of the state.

Fees for charter, or amendments to charters, under this chapter, 2 title XN, shall be subject to the power of the legislature to after, reform or amend the same.

Fees for charter, or amendment or supplement thereto, of a private corporation for religious, literary, benevolent or scientific purposes, \$50; for any other purpose, \$25, except railroad or fele-graph companies, which pay a fee of \$100; paid at time of filling

General, Powers and Dittes of Private Corporations. Every private corporation has power:

1. To have succession by its corporate name for the period binited in its charter, not to exceed lifty years; when no period is limited, for twenty very.

2. To maintain and defend judicial proceedings.

3. To use a common set.

To mannam and orient funcial proceedings.
 To be a common seal.
 To hold, purchase, sell, mortgage or otherwise convey such real and personal estate as the purposes of the corporation shall require, or to secure any debt or liability due or belonging to the corporation.

- 5. To appoint and remove subordinate officers and agents, and to allow them suitable compensation.
  6. To make by-laws, not inconsistent with existing laws.
  7. To enter into any obligation or contract essential to its
- To increase or diminish the number of its directors or tru s. To increase or animism the number of its directors of trus-ties, to be not less than three nor more than thirteen, by vote of stockholders.

  May increase its capital stock to not exceeding double the animit of its authorized capital, which shall be certified to secre-

amount of its authorized capital, which shall be certified to secretary of state.

May borrow money, issue bonds or notes therefor and pledge the property and income of the corporation. May open books for subscription of stock within three months from filling charter, after giving thirty days; notice in a newspaper published or generally circulated in the places where books are to be opened.

A majority of the stockholders or trustees shall constitute a quorum to transact all business. Annual elections of directors or trustees to be held at such thires and places as by-laws direct, the property of the place o

Directors and treasurer and such other otherers as deemed necessary.

Directors or trustees may adopt by-laws, which may be altered or changed by majority vote of stockholders, at any election or special meeting for that purpose by the directors or trustees on written application or majority of stockholders or members.

Elections, if not held on day appointed, may be held on any more proposed by the proposed of the stockholders. And how shall be kept wherein are to be recorded all business transactions, and open to inspection of all stockholders. And when required by one-third of the stockholders, shall report in writing of the condition of the corporation, and shall declare dividends, etc. The stock deemed personal estate and transferable only on books of corporation, as by-laws declare. Board of directors may require the subscribers to the capital stock to pay amount subscribed as may be required by the by-laws. Stock may be forefreit when stockholder shall neglect to pay his installments after being notified.

Directors who pay any dividend when its navment would

Directors who pay any dividend when its payment would render the corporation insolvent shall be jointly and severally liable for all debts of the corporation to the extent of the dividend so paid. But any director who shall file his objections to such payment shall not be so liable. Principal office to be kept in this

LLARILITY OF STOCKHOLDERS. If there is no property of the corporation to be found, execution may be issued against stock-holders to the extent of unpaid stock, etc.

Moments to the extent of unpaid stock, etc.

Whenever any banking, mercantile or other business firm
desires to become incorporated without a change of the firm name,
such firm shall, in addition to the notice of dissolution required at
common law, give notice of such intention to become incorporated, for at least four successive weeks, in some newspaper published at the seat of government, and in the common newspaper published at the seat of government, and in the common ewspaper pubished at the seat of government, and in the common consistency
such county, and, if not, then in some adjoining county, and no
change shall take place in the liability of such firm or the members thereof.

change shall take place in the mining or such many changes shall take place in the mining of the formal control of the state of the formal control of the with the secretary of this state a duly certified easy of the articles of incorporation, when such secretary shall issue a permit to such corporation to transact business in this state.

nut to such corporation to transact unsuress in this state. No such corporation can maintain any suit at law or equity, in any of the courts of this state upon any demand, whether arising under contract or tort, unless at the time such contract was made, or tort committed, the corporation had filed its articles of incorporation with the secretary of state to procure its permit. Such corporation shall, it its capital stock be \$100,000 or less, pay a few of \$25 for such permit; if more than \$100,000 and less than \$300,000, a few of \$300, if more than \$500,000 and less than \$1,000,000, it is shall pay a few of \$200.

a fee of \$100; if more than \$1,00,000, it shall pay a fee of \$200. No permit shall be issued for a longer period than ten years. The original permit or certified copies thereof shall be evidence of the compliance of said corporation with this act. A certificate of the secretary of state that any such corporation has failed to the in his office its articles of incorporation consultations that such corporation has in no particular compiled with the requirements of this act.

The provisions of this act shall not apply to corporating created for the purpose of constructing, building, operating or maintaining any railway, or to such corporations as are required by law to procure permits to do business from the commissioner of agriculture, insurance, statistics and history.

### LIENS.

Mechanics, contractors, builders and material-men have a lien on the improvements made by them, and on the land on which they stand, for their debt, and may fay and secure the lien upon said property, by filing the contract and having it recorded in the county clerk's office within six months after it becomes the: if the contract is verbal, other formallities are re-quired. In the case of bonested in lien is allowed unless re-quired and the contract is verbal, other formallities are re-quired. In the case of bonested of the wife is given as required in conveyance of the homestead, of the wife is given as required

Persons performing labor in the construction or repair of rail-roads or their property, or in the operation of a railroad, have a preferred lieu upon such railroad and its equipments for their wages. Keepers of hotels and boarding houses have a lieu on baggage and all property deposited with them for their bills.

## MINING.

By act of the legislature of April 14, 1883, all minerals in the public school, university, asylum and public lands of the state of Texas, were reserved from the operation of the laws for the sale of such lands. By the same act the state land board had the control and management of the disposition and use of said minerals. The mines could be worked under certain rules and regulations giving to the land board five per cent, of the gross proceeds of the mines; but no title could pass.

esents of the funners; but no neconomials and probability asylum and public lands containing valuable mineral deposits were reserved from sale or other disposition, except as provided in said act, and were declared free and open to exploration and purchase by children's of the United States, and those who have declared their intention to become such. Locators under former act had the right to accept within thirty days the provisions of the latter act.

All unsoid lands were to be classified by the commissioner of the general land office of the state, and map made showing loca-tion of all such lands and baye all nineral lands so designated, and all locations to be put into mining districts with a surveyor.

and all locations to be put into mining districts with a surveyor.

Mining claims upon velus or lodes of quartz or other rock in place bearing cimabar, lead, tin, copper or other valuable netals, excluding deposits of Iron ore, coal, kaolin, baryta, salt, marble, ire clays, valuable building stones, off or natural gas, may equal but shall not exceed one thousand five hundred feet along the velu or lode, not to exceed twenty-one acres, in total area. Location, the complex of the com

Discovery tunnels may be run and owner of such tunnel shall have right of possession of all velts or lodes discovered by such tunnel within two thousand feet of the face of such tunnel, on the

inner within two thousand feet of the base of such tunnel, on the lime thereof.

Locators a thirdmals, or associations of not less than four periodic and lawe the right to beard and obtain patient for any periodic and lawe the right to beard and obtain patient for any periodic and lawe the right to beard and obtain patient for any periodic and the patient of the periodic and the patient of the section, not exceed addition, and the payment of the section, and exceeding one hundred and sixty acres to an individual person, or three hundred and twenty acres to an association or corporation, and the payment of not less than 8th per acre where situated more than ten infles from any completed railroad, and not less than 5th per acre where situated more than ten infles from any completed railroad, and not less than 5th per acre where estimated more than ten infles from any completed railroad, and not less than 5th per acre where estimated more than ten infles from any centre of the control of the second of less than 5th of the periodic and the payment of the second of the

visions of this act shall apply to said location.

Claims usually called placers, including all forms of metallic deposit, excepting veins of quartz or rock in place, shall be subject to entry and patent under like circumstances and conditions and upon similar proceedings, as are provided for vein or localisms. All placer claims located shall conform as nearly as practicable with existing surveys and their subdivisions, and no such proceedings and the subject of the conformal conformal content of the conformal conformal

Millssites may be located on non-mineral bearing lands. Own ers of quartz mills or reduction works not owning mines in con-mection therewith may also receive a patent for a mill-site as provided in this section.

All claims upon which patents have not been applied for within five years after application for survey, etc., are forfeited without judicial action and subject to location by any other person. The above and foregoing are the main points of the law,

# UTAH

Compiled by BOOTH, LEE & GRAY, Attorneys at Law, 63, 64 and 65 Commercial Block, Salt Lake City, Utali.

### CORPORATIONS

CONGRESSIONAL LEGISLATION.—The legislatures of the several territories are forbidden to grant private charters, or special or exclusive privileges, innumities or franchises whatever, but they may, by general incorporation acts, permit persons to associate themselves together as bodies corporate for mining, bank-

they may, by general heorparation acts, permit persons to associate themselves together as bodies corporate for mining, banking, manufacturing, etc.

The territory and the political or manicipal corporations or suddivisions of south relative production or manicipal corporations or suddivisions of south relative production of manicipal company, and accompany, or borrow any money for such company, or borrow any money for such company.

Corporations, when more than twenty per centum of any such stock is owned by any person or persons, corporation or corporations, association or associations, not citizens of the United States, are depicted or to hold any real estate in the territory.

All corporations, except those organized for the construction or own more than the thousand acres of the product of the construction or own more than the thousand acres of the production of the production

tim.
The time of its duration, which shall not in any case be less than three years nor more than tifty years.
The pursuit or business agreed upon, specifying it in general

4. The time of its duration, which shall not in any case be loss than three years not more than tilty years.

5. The pursuit or business agreed upon, specifying it in general terms.

6. The amount of stock each party, has subscribed, the amount of each share, and the limit of capital stock agreed upon.

8. The mumber and kind of officers for the association, with their analysis and term of office, and the time and mainten of the capital stock agreed upon.

8. The number and kind of officers for the association, with their and mainten of their capital stock agreed upon.

8. The mumber board of directors or trustees shall be necessary to the trustee to the corporate powers of the corporation.

9. Whether the private property of the stockholders shall be liable for its obligations or not.

10. Such additional clauses as they deem necessary for the corporate of their mimber to the capital state of the corporation of their mimber to the commence, and carry on the business man the continuous of their mimber to the commence, and carry on the business mentioned in the agreement, and that the affaints verify believe that each party to the agreement has paid or is able to and will pay the amount of his stock subscribed for; provided that said acknowledgment shall not be made before the probatelloider has been paid in; and provided proporation which may be formed under the provisions of this act consists of the aggregate londer has been paid in; and provided proporation which may be formed under the provisions of this act consists of the aggregate cont. use, said or exchange, of which such corporation shall be formed under the provisions of this act consists of the aggregate cont. use, said or exchange, of which such corporation shall be formed to a such corporation shall be necessary; but each owner of such property, shall be deemed to lave subscribed as to divers the fact seminated cash value of so much of said property, the title to which he may, by deed of trust, convey, or may have conveyed, or vested in, such corpor

office, which certificate, with a copy of the articles of agreement and oath, certified by him, must be filled in the office of the secretary of the territory, who shall issue, under seal of the territory, a certificate to that fact, and these proceedings and certificate shall be sufficient to constitute the association a body corporate with succession, and the latter certificate, or a certified copy thereof, shall be evidence of the due incorporation.

with succession, and the latter certificate, or a certified copy thereor, sail be evidence of the due incorporation. Powers OF,—Corporations so created are authorized to excess the usual powers of business corporations, use a common seal, to buy, hold or sell such real estate as may be necessary to their business or to collect debts, to make by-laws, to increase or diminish the capital stock by formal proceedings.

Corporations now have the right to own and the power to buy imposed by congress a business to the extent of the limitation imposed by congress a business to the extent of the limitation imposed by congress a business to the extent of the limitation induced by congress a business to the extent of the limitation induced by congress and the proper entries, or the making of false and fraudulent entries by the secretary or person in charge of the books, with intent to deceive or defraid, is declared to be forgery and punished as such.

Fraudulent misapplication, conversion or concealment of money Forgine and punished as such.

Forging Collection of the control of

the benefits of the laws limiting the time for the commercement of civil actions.

TANATION.—The property of all corporations for pecenniary profit is subject to taxation, the same as that of individuals. Shares of stock in corporations are not taxable when the property of the corporation is taxable.

SPECIAL PROVISIONS.—Our laws contain special provisions for banking, domestic, railroad, telegraph, telephone, insurance, irrigation, loan, trust and guarantee associations, and building and larm associations.

arrigation, toan, trust that guarantee associations, and bon associations.

There are no special territorial laws in tegard to quarrying or in regard to milldams.

## LIENS.

All persons who shall do work or furnish materials for the working or development of any mine, lode, mining claim or deposit yielding metals or mineral of any kind, or for the working or development of any such mine, lode or deposit in scarch of such metals or minerals, and all persons who shall do work or other exeaxation, designed or used for the purpose of draining or working any such mine, lode or deposit, are entitled to the benefit of the lien laws of this territory.

The lien shall attach in every case to such mine, lode and deposit, and to such shaft, tunnel, incline, adit, drift or other exeavation, though such shaft, tunnel, incline, adit, drift or other exeavation, though such shaft, tunnel, incline, adit, drift or deposits owned or claimed by the same person or persons shall be worked through a common shaft, tunnel, incline, adit, drift or other exeavation, then all the mines, lodes or deposits so worked be worked through a common shaft, tunnel, incline, adit, drift or other exeavation, then all the mines, lodes or deposits so worked on the purpose of this act, be deemed one mine; and previded further, that this section shall not be decined to apply to make the purpose of any mine, hole, deposits, shaft, tunnel, melline, and the other of any mine hole, deposits, shaft, tunnel, melline, and the other of any mine, but of surveying or planting of any mines, mining claims, lodes or mineral deposits, and they shall have a hen and chain as other persons.

The lien shall likewise attach to rights of water and rights of way that may in any manner pertain to any kind of property of corporations said lien shall attach to all the franchises and claim as other persons.

Xorticg or Lien, Any party claiming a lien shall file in the

fied property.

ned property.

Notice of Lien.—Any party claiming a lien shall file in the office of the recorder of the county wherein said land is situated, a statement containing.

1. A notice of intention to hold and claim a lien.

2. A description of the property to be charged therewith.

3. A verified abstract of inhelbtedness showing the whole amount of debt, the whole amount of credit, and the balance due or to become due.

The principal contractor must file such statement within sixty days after the time when the last work shall have been done or the last material furnished. A sub-contractor must file such statement within forty days.

Sub-contractors must serve a copy of notice on the owner, LIMITATIOS of ACTIONS.—No action shall be maintained for the recovery of real property or the possession thereof, unless it appears that the plaintiff, his ancestor, grantor or predecessor was seized or possessed of the premises in question, within seven

years before the commencement of such action; and this includes possessory rights to lands and mining claims.

RIGHTS OF WAY AND EASCHENTS.—The legislature of the RIGHTS of WAY AND EASCHENTS.—The legislature are also as the construction of a mining claim and property of the way over and acquire a right of way over and across the lands or mining claims of others, whether patented or otherwise, for the following purposes; Road, tranway, railroad, ditch, camal, finne, waterpipe line, cut or tinnel in, upon, through and across.

Such right may be secured by petition and hearing in the district court, and on payment of the damages assessed therein. This act contains a provision preventing injury to land through tion of safe crossings, etc., and for the provising for the construction of safe crossings, etc., and for the provision for the reprinciply has established a chair of geology and mineralogy in the territory has established a chair of geology and mineralogy in the territory bas established a chair of geology and mineralogy in the territory bas established as chair of geology and mineralogy in the territorial university to form the basis of a future school of mines.

Transferra—All transfers of mining claims are made by deed as in case of lands.

COAL MINES.—All coal mines in which more than ten men are employed in each twenty-four hours shall be provided with an escapement shaft, slope of mine for the purpose of securing the provided with an escapement shaft, slope of mine for the purpose of securing the provided with an escapement shaft, slope of mine for the purpose of securing the provided with an escapement with the law is \$1,000 fine, or one year in the pententiary.

# MINES AND MINING.

MINING CLAIMS.—Discovery and appropriation are the sources of right to mining claims on the public mineral lands, and development the condition of continued possession.

EXTENT OF GROUND OPEN FOR LOCATION.—The locator may claim fifteen hundred feet along the vein or lode, and three surface, close foundations of the wind or lode at the surface, close foundation of the wind or lode at the surface, close foundation shall be along the vein or lode, and it shall be distinctly marked on the ground so that its boundaries can be readily traced, and the record shall contain such description by reference to some natural object or permanent monument as will identify the claim. The notice of ing district in which the claim its mining received the surface of the country of the claim of t

Fraud: Fraudulently procuring sales of mining claims by false certificates of assays, etc., is a misdemeanor.

# VERMONT

Compiled by J. W. Russflll, Attorney at Law, Burlington, Vt.

## CORPORATIONS.

FORMATION,—Corporations are formed for the purpose of car-rying on manufacturing, mercantile, mechanical, mining or quar-rying business by articles of private association. They are as

follows:
"We, the subscribers, hereby associate ourselves together as a corporation, under the laws of the state of Vermont, to be known by the name of for the purpose of at in the county of in said state, with a capital stock of divided into shares of dollars each,
"Dated at this day of A. D.

Such articles of association, signed by the corporators, are filed with the secretary of state, and a certified copy thereof printed in a newspaper in the county.

The corporation is managed by not less than three directors, who shall be stockholders, and one at least shall reside in Vermont. They shall be annually chosen at such time and place as by-laws provide, and shall hold office until their successors are appointed. They appoint one of their number president, and appoint a clerk and treasurer. The clerk shall be a resident of the state. A majority of directors constitute a quorum when convened according to the by-laws. A majority of stockholders at a meeting may transact business, and each share shall entitle holder to one tote. Directors paying a dividend. knowing the corporation to be insolvent, are personally liable for debts due from the corporation.

corporation to be insorrent, are personal, more from the exportation.

The capital stock shall not be less than \$300 nor more than \$500, out. the shares not to exceed \$100 each.

The capital stock is a constant of the stock must be paid in before debts are contracted, and no

part of it shall be withdrawn or diverted from the proper business of the corporation. Directors consenting to an indebtedness in excess of two-thirds of capital stock paid in are personally liable for the excess. Stockholders are individually liable to of stock, until the whole amount of stock fixed by the company is paid in. If the capital stock is withdrawn or refunded while debts are owing, each stockholder is personally liable to the receitors to the amount he receives.

The elerk shall keep in the town where the corporation is located and has its principal place of business a book containing reach, amount paid in by each, the time when they became owners, and a record of transfers. All books of the corporation to be subject to inspection of the stockholders at the annual meeting and other shitable times.

LIEN,—The corporation has a lien on the stock of its members for debts due from them to corporation.

FORKINS CORFORKTONS.—There are no statutes relating to foreign corporations engaged in manufacturing, mercantile, miting or quarrying business to ran y such business; as to the method of their entering or doing business is the state, and they are allowed to do business without interference or regulation. This does not apply to insurance companies or banking institutions.

Persons performing labor or furnishing material in building, repairing, fitting or furnishing a ship, vessel or steamboat have a lien on the same for eight months, and may seeme same by attachment, which shall have precedence of all other claims. A person erecting, repairing, nothing or affering a building, or interpretation of the person erecting, repairing, nothing or affering a building, or interpretation of the person erecting, repairing, nothing of affering a building and the land on which it stands, which lien continues in force three months, but does not take effect until a memorandum of the claim is recorded in the town clerk's office of the town where the real estate is situated. It does not avail sub-contractors and does not faste precedence of any former mortgage or flem.

Extractor Set Lies. When if attachment and does not resion in thirty days, and is indebted to an employe for wages, such employe has a preference to the amount of \$50, and his attachment will take precedence of others to secure that amount. In insolvency his claim to that amount is preferred.

EXEMITIONS. Manufacturing establishments and quarries and mines when first opened, including buildings and machinery necessary for the proscention of the business, may be exempt from twist of the town or etty where the same is situated.

## MINING AND QUARRYING.

There is no legislation in Vermont relating to mining or quarry ing exclusively, and no other general legislation affecting those

# VIRGINIA

Compiled by Phlegar & Johnson, Attorneys at Law, Christiansburg, Va.

# CORPORATIONS.

FORWATIONS.

FORWATION OF, "The legislature may grant charters for any purpose, The circuit and corporation courts and judges thereof, in vacation, may grant charters to five or more persons, who desire to form a joint-stock company for the conduct of any enterprise or business which may be lawfully conducted by an individual or by a body politic or corporate, except to construct a turnpike to be constructed beyond the limits of the county, or a ruilrond, street railway or canal or to establish a bank of circuitation of the county, and the control of the county, or an another of the control of the c

maximum is named in charter, fee is \$200 . Company cannot organize until copy of charter is lodged with secretary of commonwealth.

How STOCK PAID FOR. - Two dollars per share shall be paid at time of subscription, and the residue as required by the president and directors.

and directors.

Metallic and directors of stockholders are required. We present a stock to the stockholders are required. We present a stockholder are required to the stockholder are required to the stockholder and the stockholder are required. The stockholder are represented by the stockholder as owning one-tenth of the capital stock may call a general meeting at any time by publication for thirty days in some newspaper published in or near the place where meeting is to be held.

ELECTOSS.—President and directors are cleeted by stockholders, except so far as manded in the charter, or to fill a vacancy, which last the directors may do. They can receive no compensation, unless allowed by the stockholders.

Accounts and the directors are described annually of the receipts, disturs some stands and the took of accounts kept and balanced annually.

STOCKHOLDERS. The persons in whose names the shares and on the books of the company are deemed the owners, as it regards the company. Dividends shall be applied to any indebtedness of stockholder to company. Stock is not assignable whould company's consent until all assessments have been pald, when assigned assignor and assigned are thought liable for past and future assessments. Are not liable for more than their subscriptions.

DIVIDEND. Directors required to declare semi-annually divi-

deads of so much of net priority as they deem at granular to do. They are personally liable to company's creditors if they declare a dividend of any part of the capital stock. FORFEIT U.E. Charter sgranted by the legislature are forfeited if the company does not organize in two years from passage of the charter, or if atter organization it suspends its operation of

two years,

By-Lyws. Company may adopt any which are not inconsistent with charter or the general laws of the state.

VSURY, No corporation can picad usury.

LIMITATION. Charters of mining and manufacturing companies.

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LIMITATION. THE ADDITIONAL ASSIGNMENTS AND INSTRUMENTS AND INSTRUMENTS.

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smanny terms, the mean rationy of all the erentions of the USF Fig. 10-Fib.s., Every company incorporated by this state or by another state, and doing business in it rescrept insurance companies incorporated by another state, must have an office in this state at which claims against it due residents can be audited, settled and paid.

FORKICS CORPORATIONS.—Every company incorporated by another state is required to record in the county where its office wealth, its charter and a power of attorney appointing some person residung in such county in a gent on whom all lawful process against such company hay be served. All mining and process against such company hay be served. All mining and manufacturing companies chartered elsewhere can do business in this state and acquire, lease, sell, mortgage and convey real estate or interests therein and personal property suitable for estate or interests therein and personal property suitable for ten thousand acrees of land in any one county. Such companies must pay the fees required of companies chartered in the state before they can do business here.

## LIENS.

LENS.

LABORERS' LIENS. All cerks, mechanics and laborers who furnish their services or labor to any mining or manufacturing company, no matter where chartered, shall have a prior lien on the frameliess, gross carnings and on all the real and personal property of said company which is used in operating the same to the frameliess, gross carnings and on all the real and personal property of said company which is used in operating the same to and no mortgage, deed of trust, sale or hypothecation or conveyance executed since March 21, 1877, shall defeat or take presedence over said lien.

SUPLIA LIENS. All persons furnishing supplies to a mining or manufacturing company, necessary to the operation of the same, shall have a prior lien upon the personal property of such company, other than that forming part of its plant, to the extent company, other than that forming part of its plant, to the extent the estate, real and personal, of such company, which said last the estate, real and personal, of such company, which said last the estate, real and personal, of such company, which said last the callon, sale or conveyance made or exceuted and duly admitted to record, prior to the date at which said supplies are furnished to record, prior to the date at which said supplies are furnished to record, prior to the date at which said supplies are furnished. How LIENS PRIERECTHENDON person shall be entitled to such lien unless, within ninety days after the supplies are furnished rabor done, he file in the elerk's office of the county or city where the debtor's principal office is a memorandum under oath of the amount and consideration of his chain, and have the same recorded.

MINING—No person shall open, sink, dig, everwate or work in

MINING.—No person shall open, sink, dig, exervate or work in any unite or shart on land containing read, sulping or other min-erals within five teet of the boundary or another's land without the written consent of every person having any interest or title whatever in the adjoining land. A person vlolating this provision forfelts \$500 to anyone who may sue him therefor. MINING.

The owner or tenant of any land on which a coal or other mine is opened and worked, or his agent, shall permit any person and egrees with survey ones. The complete and survey such mine at his own expense, not oftener than once a month, for the purpose of ascertaining whether or not work is being done within five feet of the line. Each refusal causes forfeiture of \$20 to the person so refused. A justice of the peace may by warrant on complaint and trial command the sheriff to attend and prevent obstructions to such entry.

# WASHINGTON

Compiled by Leo & Jordan, Attorneys at Law, Rooms 200 and 201 National Bank of Commerce Bldg., Tacoma, Wash.

### CORPORATIONS

Corporations may be formed for manufacturing, mining, miling, wharfing, docking, mechanical, banking, mercanthe, improvement and building purposes, for building, equipping and managing water flumes for transportation of wood and lumber; to building, equipping and ramning railroads, for constructing canals, and for carrying on or conducting any other species of Xde corporation (except those engaged exclusively in loaning money on real estate) shall commence business until the whole amount of capital stock is subscribed.

Two or more nersons may form a corporation. Must make and

No corporation (except those engaged exclusively in loaning money on real estate) shall commence business until the whole amount of capital stock is subscribed.

Two or more persons may form a corporation. Must make and subscribe and acknowledge written end to the intriplicate, file one subscribe and acknowledge written file one in triplicate, file one subscribe and acknowledge written file one in triplicate, file one and acknowledge written file one in triplicate, file one office in county where principal place of business is located, and retain third in corporation's possession.

Articles shall state corporate name, object, amount of capital stock, time of its existence not more than lifty years), number of shares of stock, the number of trustees and their names, who shall manage the concerns of the company for such length of time into less than two man of them the state of the state of

Stock held by executor, administrator, guardian or trustee may be represented and voted by said executor, etc., as a stock-holder.

holder.

Stock may be pledged by delivery of certificate, but pledger
may represent and vote stork.

No dividends declared except from net profits. In case of an
unlawful dividing, or withdrawal of capital, trustees (except
those who have their dissent entered in uninutes of meeting) personally liable for amount so withdrawn or divided. Upon payment of all debts and dissolution capital divided among share-

noncersporation organized under the law shall have power to issue bills, noises or other exidence of indebtelness for circula-tion for money, except bonds by railroad company, which bonds shall not exceed double the amount of paid-up stock, Each stockholder (except in banking corporations) personally lable to the creditors of the company to the amount unpaid on

his stock subscription, but personal liability does not apply to persons holding stock as executor, administrator, guardian or trustee holding the same as collateral security, but estates shall be liable as stockholders.

liable as stockholders.

Books must be kept, containing names of stockholders (alphabooks must be kept, containing names of stockholders, howing number of shares of stock held by each, and time when they became owners of the same, books to be open to stockholders and creditors, who shall also have right to make extracts from books and may demand certified copy of any part of books or papers; said certified copies are presumptive evidence of facts therein stated against said company, or any stockholder. Any false entry or refusal to comply with the foregoing provisions is a misdemeanor and punishable by fine from \$100 to \$1,000, etc., etc.

("anifa) stock may be increased or diminished but hefore stock

any stockholder. Any false entry or refusal to comply will the foregoing provisions is a misteineman and punishable by time from \$100 to \$1,000, etc., etc.

Capital stock may be increased or diminished, but before stock is diminished debts must be reduced so as not to exceed amount to which eapital is reduced. To change amount of capital meeting must be called by notice signed by majority of trustees and principal place of businesses is located, or, if no newspaper there, then the nearest newspaper in the state. Notice must specify object, time and place, and amount to which capital is to be changed. Vote of two-thirds of all stock necessary to change amount of capital. If amount of explital is to be changed. Vote of two-thirds of all stock necessary to change amount of capital, is flamount of explital is to be changed, a certificate of proceedings showing compliance with foregoing procificates of proceedings showing compliance with foregoing procification of the state of proceedings and showing compliance with foregoing procification of debts and liabilities, amount fo which capital is changed. Certificates to be signed and verified by chairman and secretary of meeting, and certificate by an adjority of trustees and field the same as original articles.

Dissolution shall be trustees of the creditors and stockholders, and business of the corporation.

Dissolution value for proceedings and stockholders, and business of the corporation.

Dissolution value for proceeding the creditors and stockholders, and business of the corporation.

Dissolution value for the superior judge of the county in which the office is located, accompanied with certificate of proceeding a petition to the superior judge of the county in which the office is located, accompanied with certificate of proceeding a petition to the superior judge of the county in which the office is located, accompanied with certificate of proceeding and the same and specifying the time and place it is to be heard, shall be given by the clerk of the county in wh

1. Filing and recording in secretary of state's office a certified copy of its charter and articles of incorporation.

2. Appointing an agent residing in this state at the place where the principal business of said corporation is to be carried on. Such appointment shall be in writing, signed by the president or chief officer of said corporation, and shall authorize said agent to accept service of process in all suits. ete

authorize said agent to accept service of process in all suits, etc.

MINING CORPORATIONS,—In incorporations already formed, or which may hereafter be formed under this chapter, where the amount of the capital stock of such corporation consists of the aggregate valuation of the whole number of feet, shares or interest in any mining chain in this state, for the working and development of which such corporation shall be defined to the such corporation shall be deemed to have subscribed such an amount to the capital stock of such corporation as under its by-laws will represent the value of so much of his interest in said mining claim, the legal title to which he may by deed, deed of trust or other instrument vest or have subscribed such an amount to the capital stock of such corporation as under its by-leavs will represent the value of so much of his interest in said mining claim, the legal title to which he may by deed, deed of trust or other instrument, such corporation for mining purposes; such subscription to be deemed to have subscended on the execution and delivery to such corporation of such deed, deed of trust or other instrument; nor shall the such corporation be affected by the reason of the fact that the full amount of the capital stock of such corporation, as menioned in its certificate of incorporation, shall not have been subscribed as provided in this section; provided, that the greater portion of said amount of capital stock shall have been os subscribed; and provided further, that this section that have been subscribed; as to prohibit the stockholders of any corporation formed or which may be formed for mining purposes as provided in this section from regulating the mode of making subscribed any provided further, that this section for in aking subscribed or making subscr

scriptions to us capital stock and caning in the same by ob-axis or express on the construction of the properties of the purpose of mining or manufacturing, shall have the right to purchase or appropriate, and take possession of and divert from its natural channel, and use and hold the waters of any river.

# THE MINING DIRECTORY—LAWS.

creek or stream in this state that may be required for the mining and manufacturing purposes of any such person or persons, corporation or corporations, and to construct all dams, canals, reservoirs, ditches, pipes, finnes and aquedicts statisble and the state of the mines or manufacturing establishments of any such person or persons, corporation or corporations, where the same may be intended to be utilized for such purposes; provided, that no such appropriation or diversion of the waters of any such river, creek or stream from its natural channel, nor shall any such dam, canal, reservoir, ditch, pipe, flume or aquedict be constructed, to the detriment of any person or persons, corporations, occupying the lands or being located below the constructed, to the detriment of any person or persons, corporations occupying the lands or being located below the constructed, to the detriment of any person or persons, corporations, occupying the lands or being located below the constructed, to the detriment of any person or persons, corporations, occupying the lands or being located below the constructed, the person of the construction of the same, or the owners of the land through or upon which such dam, canal, reservoirs, ditch, pipe, flume or aqueduct nay pass through or over, or he situated upon, unless just and adequate compensation be previously ascertained and paid therefor.

### LIENS.

Every person performing labor upon or furnishing material to be used in the construction, alteration or repair of any multige claim, building, whar, bridge, dike, fume, fumel, fence, machinery, wagon road, or any other structure, etc., etc., or who performs labor in any mine or mining claim, has a lien upon same for the work or labor done or material furnished.

Claim of lien must be filed in county auditor's office within ninety days after the completion of the structure or improvement upon which said work or labor was done or performed, or for which said material was formished.

2. The name of the owner or reputed owner of the property upon which lien is claimed if known).

3. Name of person by whom claimant was employed, or to whom he turnished the naterials.

4. A statement of the terms and conditions of the contract (if any).

any).
5. A description of the property to be charged with the llen smileient for identification.
The claim of lien must be verified by the oath of the claimant or some other person to the effect that the affiant believes the same to be just.

The flen can be foreclosed in an equitable action.

### MINING.

MINING BUREAU. For the purpose of encouraging and developing the production of ores and for the purpose of disseminating valuable information concerning mines and milling through the ministerial powers of the state, a "mining bureau" has been readed consisting of the governor, heuchant-governor and state treasure

and state treasurer.

GENERAL DITTES OF MINING BURFAY. To collect reliable statistical information concerning the production and reduction of all precious and useful minerals to this state; to examine different processes for the treatment of ores used in this state, and to inquire into the merits of other processes; to hopine into the relative merits of the various inventions, machines and mechanical contrivances for mining and metallurgical purposes, to keep on file, etc., reports and papers which may be published, and all correspondence in relation to mines and mining, and to address and correspond with all parties and corporations engaged in mining, etc., etc.

and correspondence in relation to mimes and mining, and to distures and corporations engaged in and correspond with all parties and corporations engaged in Location and Possession of Mixing Lodge. All mining claims shall be governed by law in force at time of location, Mining claims located after February 2, 1888, upon any vein or lodge, etc., whether located by one or more persons; shall not exceed fifteen hundred feet in length along the vein, and tirred hundred feet in length along the vein, and three hundred feet in length along the vein, and three hundred feet in length along the vein, and three hundred feet in length along the vein and the wein of the vein or lodge within the limits of the claim located.

Ritearrs or Locatron.—The locators of all mining chims on any mineral vein, lode or ledge on the public domain and their heirs and assigns (as long as they comply with the laws in relation theretor) shall have exclusive right to possession, and use of all the sufficient of the public domain and their claims of the public domain and their parts and their public domain and their personal public domain and their possession and use of all the sufficient public domain and their ace location. ULES,—The inhers of each mining district may make rules

Stitute to the control of each mining district may make rules and regulations governing location and amount of work necessary to hold possession not in conflict with the laws of the United States or this state, but on each claim one hundred dollars' (stoo) worth of work must be done in each year. First year shall date from date of location. Failure to comply shall work to relute and claim may be re-located.

RECONDER, Almers of each district may elect a recorder. Recorder when elected shall record all notices, transfers, bonds, enveyances and assignments of mining claims within the district. Such records declared to be public records and shall away in the state. Recorder shall hold office for one year and until successor is elected; shall file oath with county auditor; shall be certifying officer; fees shall be fransmitted to county auditor, when we are made and until successor is elected; shall be transmitted to county auditor. When years and auditor shall keep such records as part of the records of list office, in districts where there is no mining recorder. Notices of

poration, etc., and other instruments shall be recorded in county anditor's office within thirty days after execution thereof. All records made prior to February, 1885, validated.

PROTECTION OF PRISONS WORKING IN COAL MINES.—The state is divided into two inspection districts. The governor shall appoint two competent coal mine inspectors for term of four years, subject to removal for neglect or madresame; appointments shall be made on recommentation of board of examiners, the said hoard to be appointed by the governor. The inspectors must be efficient with at least two years' practical experience in this state, and shall have resided within the district at least one year. Inspectors shall not be interested in any coal mine or company in the state; shall be of good moral character and labils, and shall not commit any act hipritons to mines or operators of mines, and shall devote entire time to diffus of operators of mines, and shall devote entire time to diffus of instruments to remain property of state. Inspectors shall give be a superior of the state of

SAFETY, Escripe, Err.—Escapement shafts shall be equipped with stateways or ladders, with handing places, or in lieu thereof hoisting apparatus (to be approved by inspector); all escapements and hoisting apparatus to be kept in good order and inspected every twenty-four hours by competent persons employed for that purpose.

ployed for that purpose.

VENTILATION OF GOAL MINES, ETC.—Ventilation must be equal
to at least one hundred cuble feet per minute for each person,
measured at the foot of the downcast, the same to be increased
at discretion of inspector. Air must be forced to face of every
working place throughout mime, so that mine shall be free from
snoke and gases. Mines must be inspected every morning
for firedamp, with safety lamp. Result of inspection shall
be marked at face of each working place. After March 5,
1892, milawful to use furnace for ventilation
kept twenty feet in advance of the face of each working place.

and II necessary on both sides when driving toward abandoned mine.

Cyres. In all shaft or slope indices suitable, provisions for separating between top and bottom shall be maintained, together with approved hosting apparatus and eages covered with boller iron, with brake on every drum, and safety earlies, covered eages not required in mines less than one hundred teet in depth. CONFERENT EXGINERIES, ETC. Competent, experienced and sober engineers and firence, not less than one hundred teet in depth, and solve engineers and firence, not less than eighteen years of age, must be employed. No person shall ride on loaded eage or not required to the control of the

SIGNALS.—All underground, self-acting or engine planes on which coal cars are drawn and persons travel shall be provided with proper means for signaling between the sloping places and

end of said plane, and sufficient places of refuge shall be provided at the sides of said plane, not more than sixty feet apart and to extend six feet af right angles from the rail. (Such places of refuge not required when separate traveling road is provided

validation of the particular right angles from the rail. (Such places of the control of the particular of the particular

a term not exceeding six months nor less than three months, or by both fine and imprison that the property of the property of the property of the same property of the same property of the same property of the same property of the property of the same property o

persons shall be constantly kept at or near mouth of all drifts, shafts or slopes,

Doors,—All main doors in coal mines shall be so placed that wherever one door is open another having the same effect on the same entrent of air shall be and remain closed and thus prevent any stopage of the current.

RULES.—At all mines principle persons employed, shall be kept spector, regulating the space.

Convertise Mayes,—When two or more mines are so located as to allow connection by permanent entries between, the right of way for such entry may be obtained in the manner provided by any law of eminent domain.

Tools.—All from needles and from tamping bears must be thipped with two inches of colper. Failure or neglect to comply here.

Belookts of Coal. Sold. All owners, etc., of coal mines shall keep accurate account of all coal used or sold from their mines and deliver same to inspector once in every three months and shall send certified copy of same to the state treasurer.

Taxes.—Every ton of coal used or sold from any nine shall send certified copy of same to the state treasurer.

Taxes.—Every ton of coal used or sold from any nine shall send certified copy of same to the state treasurer.

William to the lat day of January, April, July and October (William) and All coal united at bushelo or four rates men.

each year.

WEIGHING COAL.—All coal induct at bushel or ton rates must be weighed and credited to nime before being screened, etc.

WEIGHINAN, The weighman of coal shall take an oath to do justice between employer and enumers, and uniners may employ at their own experies. The FENCED—All shafts, excavations and miles, whether used for mining or otherwise, must at all times be securely fenced. These requirements in relation to fencing may be enforced in statutory proceedings before justice of the peace or police court.

SAPETY CMIES.—All vertical shafts of more than one hundred and fifty feet in depth shall be provided with iron bonneted safety cages. The safety apparatus, whether consisting of eccentric springs or other device, shall be securely fastened

to the cage and shall be of sufficient strength to hold the cage loaded at any depth, provided the cable shall break. Fine for violation of this provision not less than \$500 nor more than \$1,000.

# OIL WELLS, SALT WELLS, ETC.

Whenever twenty-six tax payers (each paying taxes on at least symbols shall pertition county commissioner for appropriation of specific some six of the problem of the prob

# WEST VIRGINIA

Compiled by MERRICK & SMITH, Attorneys at Law, Parkersburg, W. Va.

# CORPORATIONS. FORMATION OF MINING. - The agreement for incorporation

FORMATION OF MIXING.—The agreement of meorpolation should set forth:

1. Name of the corporation.

2. The purpose for which it is formed.

3. Place where its principal office or place of business shall be

kert.

Term for which it is to exist, not exceeding fifty years.
The amount subscribed to the capital stock, the number and value of each share, and the amount to which corporators desire the privilege of increasing the capital.
The agreement must be subscribed by five or more persons, who need not be residents of the state. It must be acknowledged before a notary public or some officer authorized to take the acknowledgment of deeds, and two of the corporators must make affidavit that at least ten per cent, of the capital subscribed has been paid in in good faith, and without any intention of withdrawing it before the dissolution of the corporation. Upon the filling of such agreement and affidavit with the secretary of state, he will issue a certificate of incorporation, declaring the persons named in the agreement a corporation.

meorporation, declaring the persons named in the agreement a corporation.

A corporation.

AND BY-LAWS.—The first stockholders' meeting must be held not less than twenty-one nor more than ninety days after the date of the certificate of incorporation. At this meeting by-laws should be adopted providing or 1. Officers, including directors, and the daties and tenure of office, and compensation, except where this latter is left to the board of directors.

Thus of annual election.

The of annual election of calling meetings of stockholders

Time, place and manner of calling meetings of stockholders and directors

The general business of the corporation

The general mostness of the corporation. If desired, restrictions on the usual powers of officers. These by-laws may be adopted by a majority vote of those present, and may be subsequently amended as provided by

The by-laws.

The by-laws should be entered on the record and certified by the by-laws.

The by-laws should be entered on the record and certified by the clairman of the stockholders meeting and the secretary. The directors may adopt by-laws governing their action, provided they do not conflict with the by-laws governing their action, provided they do not conflict with the by-laws governing their action, provided holders, and such election shall be on the fourth Toesday of January unless the by-laws prescribe a different time.

PLACE OF MEETING,—The principal in the backer of business may be in any state or territory of directors and stockholders may for columbia of the state of the states of bistriet of columbia of the state of the state in this cannot be done without the concurrence of persons biolding a majority in value of the stock, nor without reasonable notice.

LIABILITY OF STOCKHOLDERS,—Stockholders are not liable beyond the amount of stock subscribed by them. When that is paid up their personal liability ceases. There is no personal liability of bels for wages due to mechanics, workmen or laborers employed by the corporation.

Reports and Statements.—The board of directors shall make a report to the stockholders, at the annual meeting, of the condition of the corporation. The report shall show:

outminsor of the corporation. The report Stant Show:

1. Property and funds of the corporation.

2. Estimated value thereof.

3. Debts due to it, distinguishing such as are deemed to be good from those considered doubtful or hopeless.

good from those considered dominated or nopeless.

4. Dokts of the corporation,

5. Dokts of the corporation,

6. Dokts of the corporation,

6. Dividends declared, and losses incurred and profits accruing during the preceding year.

4. Copy of this report shall be furnished to each stockholder requiring it, with a list of the stockholders and their residences. But this report is not required to be published.

But this report is not required to be published.

FOREUX CORPORATIONS. No corporation incorporated under the laws of another state may hold property or transact business in this state, until it shall have filed with the sceretary of state a copy of its articles of association and of the law and authority under which it is incorporated. A certificate that this has been done will be issued by the secretary of state, and this critificate shall be filed and recorded in the office of the clerk of the compty court of one of the counties in which the business of the comparison is conducted without complying with said provisions shall be guilty of a misdemeanor, and upon conviction thereof shall be fixed not less than 500 nor more than \$1000, for each month its failure so to comply shall continue.

### LIENS

There are no liens specially applying to a mining corporation, or to miners, but every workman, laborer or other person who shall do or perform any work, or labor, by virtue of any contract for any incorporation doing business in this state, shall have a lien for the value of such work or labor, by virtue of any contract for any incorporation doing business. In this state, shall have a perform of the value of such work or labor upon all the real estate and personal property of said company, and such lien shall have priority over any lien created by deed or otherwise on such real said labor was performed, but there shall be no priority between the persons claiming such mechanics' liens. Such lien shall be discharged unless the person claiming it shall fle with the elevation of the county in which such work or labor was performed, or in which the principal office, works, real estate or personal property of the company is situated, a just and true personal property of the company is situated, a just and true account shall be sworn to by the claimed for abor performed more than nine months before such lien was recorded.

In addition to the above, every mechanic, builder, artisan,

nine months before sign lien was recorded.

In addition to the above, every mechanic, builder, artisan, workman, laborer or other person who shall perform any work or labor or furnish any matterial or manchinery for constructing, altering, repairing or removing a house, mill, manufactory or other building, apportenance, the worker or lies agent shall have a bent theorem on the attention of the worker or lies agent shall have a bent theorem on the attention of the worker in the property. Such len will be lest unless an account duly sworn to as above is fleel in the same manner, within sixty days from the time the last work was done or material furnished. Such liens will be lost unless said is brought thereon within six months from the time the len is recorded.

# MILLIDAMS.

A person having on his land or proposing to build on his land a water mill, or other machine, manufactory or engline useful to the public, and desiring to erect a dam across or in the water-course on which the same is situated, or to cut or enlarge a canal through lands above or below, or to raise a dam, may apply to the circuit court of the county for the appointment of the consistence of the control of the

revert to the former owner, his heirs and assigns.

Richt to W.A.Y.—Mining property is not subject to a right of way more than any real estate, nor does it have in its favor such right of way. Mine owners desiring to drain their mines or lands through the land of others may apply to the circuit court for the condemnation of such right in the manner already described as to mildams. But it is doubtful if the statute can be enforced, as such condemnation can only be had for public uses, and the West Virginia supreme court have held a similar use not a public use. A coal mine cannot be mined within five feet of adjoining land, and the owner of such land shall have the right once a month to enter the mine, and if need be survey it. This right will be enforced by a justice of the peace on complaint made.

### MINING

MINING CLAIMS ON THE PUBLIC DOMAIN. This state has no statutes regulating the location of such claims, and no lands on which they could be located.

### COAL MINES.

INSPECTORY—LAWS.

INSPECTORS—The state is divided into two mining districts, and two mine inspectors, one for each district, are appointed by the governor and hold their office four years. The inspector's duties shall be to examine each unine at least twice a year and see that the provisions of the mining law are observed and stricily carried out. These examinations particularly apply to ventilation, drainage and generalsafety. He must make a record of such examinations, and animally as of June 20th make a filed not later than becember soth following.

MAYS. The operator or agent of each coal mine shall make, or cause to be made, an accurate map or plan of each mine, and file acoyy thereof with the inspector of the district. The original shall be kept in the mine office, subject to examination and use by the inspector. Twice a year the mine must be surveyed and mine. If the operator fails to do this the inspector may have if done at the expense of the operator.

Of There of the state of the less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than dirty feet in breadth it worked by shaft, and not less than one hundred feet if the mine he worked by shaft, and not less than dirty feet in breadth it worked by slopes of drift. There shall be a feet of said outlets, which shall be kept free from all obstructions that might prevent ravel in case of an emergency, and if either of said outlets, which shall be feet free from all obstructions that might prevent ravel in case of an emergency, and if either of said outlets, which shall be provi

PENALTIES—A fine of not less than \$50 nor more than \$500 for violating the provisions of the act. The act applies only to those mines employing ten or more persons in the twenty-four hours. Scales. Each company or person operating a coal mine shall provide suitable standard scales to be tested by the scaler of weights and measures.

WEIGHMASTERS.—A weighman shall be employed by the operator of the unine, and the uniners working therein shall employ one. If they fail to do so, then the weighman employed by the operator of the unine shall weigh the coal. Each of the persons so employed shall be sworn.

WEIGHED BEFORE SCREENING.—All coal under contract for payment by weight shall be weighed before screening, and if paid for by measure it shall be ascertained before screening.

wages. It shall be unlawful for any company, firm or person, directly or indirectly, to issue, sell, give or deliver to any person employed by him, or it, in payment of wages due such employe, or as advances on the wages of labor not due, any serin, token, draft, check or other evidence of indeltedness payable otherwise than in their face value in money. The company or person doing

it shall be liable to a fine of not less than \$20 nor more than \$400, and at the discretion of the court imprisoned not less than ten or more than thirty days.

THE CON,—The compelling or attempting to compel an employe to purchase goods or supplies from a particular person is a mistelneauor, punishable by fine and imprisooment.

### QUARRIES.

Quarries are subject to the laws relating to real estate generally.

### REAL ESTATE.

The statutes do not indicate what shall be considered real tate, but fixtures and machinery would no doubt be counted such by the courts.

# WISCONSIN

Compiled by Cooper & Nelson, Attorneys at Law, Racine, Wis,

### CORPORATIONS.

COMPIRED PROVISIONS RELATIONS.

GENERAL PROVISIONS RELATING TO CORPORATIONS.—
Every corporation organized under any law of this state, when no other provision is specially made by law or by its articles of organization, shall have the usual powers vested in corporations; of making all necessary and proper contracts to effect lispurposes and conduct its business; to sue and be sued and to appear and defend in all actions and proper contracts to effect lispurposes and conduct its business; to sue and be sued and to appear and official property. The composition of the composition, and to establish branch offices or places of business in this state or elsewhere; to make, amend and repeal by-laws and regulations for its own government and such others as shall be necessary or convenient for the accomplishment of its purposes; to take and hold property, both real and personal, and sell, convey or others as shall be necessary or convenient for the same; to mortgage its fursions of the corporation, and no other, with the consent of analycrity of its stockholders, or, if not a stock corporation, of a majority of its stockholders, or, if not a stock corporation, of a majority of its stockholders, or, if not a stock corporation, of a majority of its members; and to establish, a majority of the consent, a sinking fund for the payment of its debts, and the consent, a sinking fund for the payment of its debts, and the consent, as sinking fund for the payment of its debts, or to hard the consent of analycrity of its members; and to establish, a majority of the directors of trustees of every corporation, convend according to the hy-laws three-dembers owning a majority of other corporations shall constitute a quorum at any meeting of other corporations shall constitute a quorum at any meeting of the stockholders or members, and he capable of transacting any business thereof, except when otherwise specially provided by the laws or the articles of organiza

been received, satied in classes, and a similar statement of its objects and purposes.

FOREIGN CORPORATIONS TO APPOINT ATTORNEYS TO RESPIRATE OF PROCESS.

FOREIGN CORPORATIONS TO APPOINT ATTORNEYS TO RESERVICE OF PROCESS.—Every foreign or domestic corporation, not duly organized under the laws of this state, formed for the purpose of transportation of either passengers or property, shall, before doing any business in this state, deposit in the office of the secretary of state a written instrument the state of the secretary of state as written instrument their seal, if the president and offset as written instrument their seal, if of the secretary of state and state and have an offset depress and seal, otherwise by the principal offset thereof, and therein appoint an attorney to reside in this state and have an offset therein, specifying his place of residence etc., may he served, and it shall therein be stipulated that any service of any such summons, notice, pleading, etc., upon such automory, or in his absence at his said offset, and such as a state of the state of

of the corporation or a new certificate issued before the rights of the corporation are affected. Transfer of stocks on books can, by proceeding, be compelled.

Constituent of the corporation of the corporation are affected. Transfer of stocks on books can, by proceeding, be compelled.

Constituent of the particular of the corporation of the property estimated at its true money value, actually seelved by it equal to the particular of the pa

is paid thereon to the their creditors of such corporation, and those who may become such within six months after such transfer, or to any lawfully appointed receiver or assignee of the corporation for their use.

Any stockhoder may at all reasonable times inspect the books are the composition. Every creditor of a corporation shall be informed at anythine of the amount of capital stock of such corporation subscribed, the amount paid in, who the stockholders are, the number of shares of stock owned by each, and the amount unpaid by each stockholder upon the shares owned by him; and if any shares of stock which were not fully paid for have been transferred within six months of the tamount of the proceedings of the corporation shall be kept. Every stockholder is entitled to one vote for each share of stock. When all the members of any corporation shall be present at any meeting, however notified, and shall sign a written consent to the holding of such meeting on the records thereof, they may transact any business at such meeting which such a such as a s

or more of the following named purposes. For any lawful mercantile, trading, mining, smelting, quarrying, producing, lumbering, manufacturing business, etc. Articles of incorporation entire the control of the control

who May Have—What is takent To.—Every person who, as principal contractor, architect, civil engineer or surveyor, performs any work or labor, furnishes any materials or prepares any plans or estimates for, in or about the cretion, construction, repairs, protection or removal of any dwelling-house or other or any merbinery creted or constructed so as to be or the contract of any merbinery creted or constructed so as to be or or any profes, or in the filling up of any water lot, or the construction thereon of any what or permanent crection, or in the dredging of the channel in front of such water lot, or the design or construction thereon of any what of permanent crection, or in the dredging of the channel in front of such water lot, or in digging or construction thereon of any what sidewalk or earlying, upon hand trespective of any varies, sidewalk or earlying, upon hand trespective of any easement on or over said land, or doing manual labor thereon said land labor to be done, and upon the water lots sailled or he front of which such dredging is done, not exceeding forty acres, or, it within the limits of an incorporated elity or dilage, upon the piece or parcel of land used or designed for use in connection with such dwelling-house, building, machinery, etc., or hand on with such swelling-house, building, machinery, etc., or hand on work aforesaid of or upon such dwelling-house, building, machinery, etc., or hand on which shall be prior to any other lien which originates subsequent to the commencement of the construction, repairs, removal or work aforesaid of or upon such dwelling-house, building, machinery, the placed of the construction, repairs, removal or work aforesaid of or upon such dwelling-house, building, machinery, to be placed or structure designed or having

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Service of the control o

any action brought thereupon at his own expense, and during the pendency of such action the owner may withhold from the contractor the amount of money for which was held the first that the contractor the amount of money for which was held to first the lien, he shall her until the distribution of the lien, he shall he are the lied to deduce from any amount due by him to the contractor the amount of such judgment and costs, and, if he shall have settled with the contractor in full, shall be entitled to recover back from the principal contractor was originally liable. And any contractor or sub-contractor who shall purchase that the same of the contractor of the contractor was originally liable. And any contractor or sub-contractor who shall purchase that the same and shall thereafter use or caused to be used the said material in the construction of any building or improvement other than that designated, without the written consent of the person from whom the materials were purchased, with intent to defraud such person, shall be deemed guilty of a misdemeanor, and on conviction shall be punished by imprisonment in the county jall not more than three months, or by a fine not exceeding 850.

similarly gall not more than three months, or by a line not exceedmonths. The property of the property of the person against
Such claim for lien shall contain a statement of the contract or
demand upon which it is founded, the name of the person against
whom the demand is claimed, the name of the person against
whom the demand is claimed, the name of the person against
whom the demand is claimed, the name of the relation of
sastgement of the amount of the performance of labor or turnishing
of materials, a description of the property affected thereby, a
stement of the amount cast given by the claiming, or his attorney, and need not be verified, and may be amended in case of
action brought by order of the court as pleadings may be. Lien
shall be filed in the office of the clerk of the circuit court of the
county in which the lands aftected thereby lie. Statutory procedties shall be filed in the office of the clerk of the circuit court of the
unity in which the lands aftected thereby lie. Statutory procedties shall be filed in the office of the clerk of the circuit court of the
unity in which the lands aftected thereby lie. Statutory proceding the statutory of the clerk of the circuit court of the
unity of the statutory of the clerk of the particular
ties shall be filed in the office of the particular of the clerk of the
ores or minerals in this state, and any bona fide holder of any
such labor issued or drawn by any person or corporation, shall
have a lien for the wages the lim, or for the amount the on such
draft, time-check or order, upon all the month curring holds try
ledoming to such person or corporation, including the ores or
products of such mine or manufactory, together with the machincity of the personal property used in the operation of such person or corporation, and all the interest
of such person or corporation in competition is the total
of such person or corporation, she clonding the ores or
products of such mine or manufactority, together with the machincity of the state person or c

MINING.

RULES GOVERNING MINING RUGHTS. Where there is no contract between the parties, or terms established by the land-pulled to mining contracts and leases for the digging of ores and ninerals, viz. 1. No flecuse or lease, vertal or written, made to a miner, shall be revocable by the maker thereof, after a valuation of the digging of ores and ninerals, viz. 1. No flecuse or lease, vertal or written, made to a miner, shall be revocable by the maker thereof, after a valuation of the property of the property of a crevice or range containing ores or minerals shall entitle the discoverer to forter this rights by negligence, 2. The discovery of a crevice or range containing ores or minerals, sor the value thereof, from the recolodic but seem innershall not be entitled to recover any ores or minerals, or the value thereof, from the recolodic but seem innershall not be entitled to recover any ores or minerals, or the value thereof, from the ingentive or minerals, or the value thereof, from the recolodic but seem notice of his claim, and he shall be entitled to the ores or minerals dug after such notice, at the provision of mining contracts, to the same extent as usage may be proved in other branches of business.

Every corporation, company or person engaged in mining may, more compliance with the provisions of the statutes for the determination of the damages, conduct or convey the water away from their shafts, levels or land upon, over or below the surface of the land of any adjoining owner, in pipes, dutches, races or timmels, doing as little damage as the case will admit of. The nature of the proceedings for the attention the county judge. Effer party days after the same is filed, by filing with the clerk a written may appead from the award of the commissioners within twenty days after the same is filed, by filing with the clerk a written may appead from the award of the commissioners within twenty days after the same is filed, by filing with the clerk a written for the party of the filing party of the filing par

and hold stock in any corporation, foreign or domestic, formed for the purpose of manufacturing, creating or generating any kind of power or light, to be used as a mechanical agency, when such power or light is to be used wholly, or in part, in facilitating the operations of such minary smelting, quarrying or manufacturing company, or the transaction of its business.

# WYOMING

# CORPORATIONS.

CORPORATIONS.

CREATION AND RECULATION.—Three or more persons who may desire to form a company for the purpose of carrying on any kind of manufacturing, mining, chemical, macadamizing or mechanical business, constructing wagon roads, raifroads, telegraph lines, ditches, building finness, running tunnels, or carrying the company of the purpose of the control of deeds, duplicate certificates in writing, in which shall be stated the corporate name, the object, the capital stock, the term of its existence, not to exceed fifty years, number of shares, the number of trustees and their names, the name of the town and county shall file one of the said certificates in the office of the county wherein the business of the company is to be carried on, and one thereof in the office of the scretary of state. Centrol of the existence of such company, which shall be a body and certificate is certified to by the secretary of state, it shall be evidence of the existence of such company, which shall be a body in the control of suning and being sneed, and have a common sent; it shall be expladed of acquiring by purchase, precupition, donation or otherwise, holding or conveying by deed or otherwise, any real or personal estate necessary to enable the said company to carry on the operations bauned in the certificate.

Triveres—Voltes than three or more than nine trustees. The stockholders at such time or more than nine trustees, the stockholders at such time and place as shall be directed by the stockholders at such time or more than nine trustees, which is a state of the certificate.

Triveres—Voltes than three or more than nine trustees to such the control of the certificate.

Triveres—Voltes than three or more than nine trustees that be directed by the stockholders at such time and place as shall be directed by the stockholders at such time and place as shall be directed by the stockholders are such as the cours shares of stoc

named.

LABILITY OF STOCKHOLDERS. The stockholders shall be severally and individually lable to creditors to the amount of the unpaid assessments on capital stock held by them respectively, for debts and contracts made by the company.

GENERAL POWERS OF ORVORATIONS—Every corporation under the provision of this chapter, as such, has power:

I. To have succession by its corporate name for the period limited in its certificate of charter.

Z. To suc and be such complain and defend in any court of law

- or equity To make and use a common seal, and alter the same at

3. To make and use a common seal and after the same at pleasure.

4. To hold purchase and convey such real estate and personal.

5. To appoint such subordinate oliners and agents as the business of the corporation shall require, and to allow them a suitable compensation.

6. To make by-laws, not inconsistent with any existing law, for the management of its property, the regulation of its adairs, and for the transfer of the property.

Any corporation may increase or difficult its capital stock to any amount which may be deemed sufficient and proper for the purposes of the corporation.

ACCEPTANCE OF CONSTITUTION BY CORPORATIONS.—No corporation organized under the laws of Wyoning or any other for transact business in the state until it shall have accepted the constitution of the state. Every acceptance of the constitution shall be filed and recorded in the office of the secretary of state, who shall note on the margin of the record the corporation filing such acceptance, and the fact that the same is filed.

LIENS ON PERSONAL PROPERTY.—Any mechanic, artisan or other person who shall bestow labor upon any article of personal

property at the request of the owner, or who shall furnish materials for making or repairing same, shall have a lien thereon for his reasonable charges therefor.

APPOINTMENT OF APPINISERS.—If the foregoing charges are not paid within thirty days, the person to whom such lien is given on the property of the property of appoint appropriate the second of the property of appoint appropriate the second of the property and return the appraisement to the justice within ten days after their appointment.

NOTICE OF SALE.—A person to whom such lien is given shall give ten days prior notice of the time, place and terms of sale, which shall be personally served upon the owner, if he reside which shall be personally served upon the owner, if he reside which shall be personally served upon the owner, if he reside to the property at public and to be publication in some newspaper, and whill transit by mail of the property of the property at public auction, for eash, in accordance with the notice, between the hours of 10 A. M. and 4 P. M. of the day appointed, and from the proceeds pay the costs of such appraisement, notice and sale, and satisfy his lica. The residue of the property unsold he shall surrender unto the owner. No such as called the property and the property and satisfy his lica. The residue of the appraisement value of the articles sould.

MESERS LIESS ALEX OF LADOR—He who shall work, at the Missers of the property at the second of the property and the property a

MINERS' LIENS—LIEN OF LABOR.—He who shall work, at the request of the owner thereof, in a vein or lode, mine or bank, shall have a lien thereon to the amount due at any time when a demand shall be made upon such owner and payment shall be

LIEN FOR MATERIALS. Any person who shall labor as a mechanic or otherwise, or who shall furnish materials for erect-ing or constructing apparatus upon any unine referred to het preceding section, shall also have a lien upon the mine for his reasonable charges.

mechanic or otherwise, or who shall furnish materials for effecting of constructing apparatus upon any union referred to in the preceding section, shall also have a lien upon the mine for his reasonable charges.

LIEN ON OH, LANDS—All persons performing labor or furnishing materials shall have like liens upon oil territory upon which he labored or furnished materials, as miners or other alborers upon oil mines, as provided in this chapter.

SUB-CONTRACTOR, CLAIN OF—Any sub-contractor, whose demand has not been sub-performed gueete to the owner and at sentitled to the amount of his claim out of the money due the contractors, and the owner shall thereupon notify the contractors, so that, if there be any disagreement as to the true sum due, the account may be anneably adjusted. But if, within thirty days after the receipt of such notice, the contractor does not notify the owner that he intends to dispute the clam, he shall be considered as assenting to the demand, and the owner shall be institled to such a contractor. The contractor who shall have purchased such nime.

PHOCEDITE IN OPTAINING LIEN—Any person entitled to a lien under this chapter shall make an account in writing of the items of labor, skill, machinery and material, and, making oath thereto, shall within skiyl days from the time of completion lied interests of the contractor of the property which account so made and filed shall for one year thereafty which account so made and filed shall for one year thereafty of the major has been dependent on the property of the major has been dependent on the shall make an account in writing of the items of labor, skill, nucliniery and material, and making oath increto, shall within skiyl days from the time of completion lied in the county of the property. All lien claims for labor performed or material furnished shall be compressed with a correct description of the property which account so made and filed shall for one year thereafty of the shall also rought in the county where said lien is filed. Service therefo

PRIORITY OF LIEN.—The lien for work and labor performed and underial furnished, as aforesaid, shall be preferred to all other incumbrances which may be attached to such building or ground subsequent to the commencement of such buildings or improvements.

### MINING.

LODE AND PLACER CLAIMS.—In any mining district the miners may meet and organize and elect a recorder and make regula-tions, not in conflict with the laws of the United States or this state, governing the location, manner of recording and amount of animal work necessary to hold possession, subject to the fol-

lowing requirements:

1. Any five niners owning in part or in whole claims within the proposed district shall give at least three written notices of a meeting called by them for organizing such district.

2. The meeting must be attended by at least ten persons, owning in part or in whole claims within the proposed district.

3. The recorder elected shall hold office until his successor is elected and qualified; he shall give bonds for at least \$1,000, which shall be approved by the probate judge, and filed in the office of the country elects.

3. The recorder elected shall hold office until his successor is elected and qualified; he shall give bonds for at least \$1,000, which shall be approved by the probate judge, and filled in the office of the county elerk.

4. When a district is once organized it cannot be subdivided, except in accordance with the local laws of the district, or by action of the jegislature. It crosses of about the subdivided except in accordance with the local laws of the district, or by action of the jegislature. It crosses of about the first of the register of decels of the county.

5. Each mining alstrict may regulate the fees for recording certificates and other instruments.

The laws and records of each mining district shall be filled with the county register of deeds.

MINING WYFER-KIGHTS.—Any person mining or milling in the state shall have the right to bring water from mines or newwiceld it shall not infringe our vested rights.

HIGHTS OF WAY. All mining claims shall be subject to the right of way of any ditch or flume for mining purposes, or of any interval of the property without the consent of the owner, except in condemnation, as in the case of fand taken for public highways. The owner of these relations of the surface to enjoin miner from working state him.

Relates of the critical in persons, while yet the right to shall occur on the surface to enjoin miner from working stach mine.

Relate virtues, when there is error in the original location certificate in complance with and subject to this act, provided in contribution of any mineral enion there is a surface to enjoin miner from working stach mine.

Relate virtues, when there is error in the original location certificate in complance with and subject to this act, provided the claim, such location may find an additional location certificate in complance with and subject to this act, provided mineral enion than in the actual possession of anothers, by force, threats or stealth, and they shall proceed to carry out such means of the provided and proceed to carry out s

or both.

PROTECTION OF SHAFTS. Any persons who have sunk miningshafts upon any mining claim shall forthwith seeme such shafts and openings against the injury of live stock running at large upon the public domain, by covering them in a manner to render them sade, or by making a strong fence around such shart or openings aforesaid. Any persons who shall fail to compely with this section shall be guilty of a misdemeanor and, upon considerion, shall be liable for damages sustained by loss of live stock thereby.

thereby.

SIZE OF CLAYM.—The length of any mining claim located within the state shall not exceed liftern hundred feet horizontally along such vein. The width shall not exceed three hundred feet on each side of the discovery-shall. A discoverer of a mineral vein the mining district, if such district to organized, and shall, within one hundred and twenty days, record the same with the control term of the control of the state of the district of the same with the control the shall contain the following facts: 1. The mane of the locate which shall contain the following facts: 1. The name of the location; 4. The length and general course of the vein as far as it is known; 5. The amount of the surface ground claimed on either

side: 6. A description of the claim by such designation of fixed objects as shall identify the chain beyond question.
Discovery Rigatirs.—The discoverer of any numeral yein shall have a period of one hundred and twenty days in which to sink a discovery-shaft. A discovery-shaft with the recorder of the mining district, if such district be organized, and shall, within thirty days, record such claim with the recorder of the mining district, if such district be organized, and shall, within ninety days, cause to be recorded such claim with the recorder of dieds. The major of the observation certificate, which shall contain. days, cause to be recorded such claim with the recorder of necession of the cominy by a location certificate, which shall comain: I. The name of the claim, designating it as a placer chain; 2. The name of the locator; 3. The date of location; 4. The number of feet or acres thus claimed; 5. A description of the chain by such designation of natural or fixed objects as shall identify it beyond question.

questions, For PLACER CLAIMS—When any person has held and vocked his claim in conformity with the laws of this state and the regulations of the mining district for five successive years after the 1st day of January succeeding the date of loca-tion, he shall be entitled to proceed to obtaining a patent for his claim from the United States without performing further work.

### COAL MINES.

MAYS. Every operator of a coal mine shall cause to be made an accurate map of such coal mine, of a scale not to exceed two hundred feet to the inch, which shall exhibit all the openings, and shall show the direction of the air currents therein, and the boundary flies. Said maps shall be kept at such mine for the use of the state inspector of coal mines. Said operator shall as often so once in every six months accurately trace a plan of the excavation made, and of all the working places during the preceding proximity to the boundary line. Said map will be the property of the state, and shall remain in the care of the inspector of coal mines. If said inspector believes said plan to be inaccurate, he may authorize a correct plan made at the expense of the operator of said mine.

may authorize a correct plan made at the expense of the operator of said mine.

Official may coal mine, unless such mine is in communication with at least two openings by a distance of not less than fifty feet. When a second opening is made, not to exceed seventy-dive feet in vertical depth, it shall be set apart exclusively for ingress and angle of skry degrees in descent. The hosting machinery and stairs shall be kept in sate condition and inspected once in each eventy-four hours by one employed for that purpose. The operator of any coal mine shall maintain therefor ample means of ventilation, almorting not less than one hindred enbet feet per minute for each and every person complexed in said mine.

All maintain therefor ample means of ventilation, almorting not less than one hundred enbe feet per minute for each and every person complexed in said mine.

All maintain the set of the said maintain therefor ample means of ventilation, almost one practical inside muting boss, who shall keep a careful watch over the ventilating apparatus, the drainage and travelling ways; he shall measure the air current at least once a week at the inside and outside; he shall keep a record of such measurements, which shall be one for examination by the state inspector. Any workman who shall intentionally injure any mining apparatus or disable year of region a carrying out the state inspector of cost mines, who shall hold his offlee for two versas, and until his successor is duly appointed and qualified. It is a mining the cost of the state, and of temperate habits; he shall receive a salary of \$2.50 and actual traveling expenses, to be paid quarterly by the state treasurer upon warrants of the anitor. It is a minor of \$2.50 and actual traveling expenses, to be paid quarterly by the state treasurer upon warrants of the anitors. It is a minor the proper of the state, substantial to the substantial proposal of the global proposal of the global proposal of the governor. He shall give a bond for the Woming.

Wyoning.

APPEALS UPON DECISIONS OF THE INSPECTOR. The inspector shall exercise his sound discretion in the enforcement of the aloresaid provisions, and it the operator shall not be satisfied with his decision he may, within lifteen days thereafter, appeal with his decision he may, within lifteen days thereafter, appeal country of the property of t



# MINING LAWS

# THE DOMINION OF CANADA

REGULATING THE DISPOSAL OF LANDS CONTAINING MINERAL OTHER THAN COAL

EMBRACING RULES AND REGULATIONS GOVERNING QUARTZ MINING, PLACER MINING, NATURE AND SIZE OF CLAIMS, RIGHTS AND DUTIES OF MINERS, ADMINISTRATION, BED-ROCK FLUMES, DRAINAGE OF MINES, DITCHES, GENERAL PROVISIONS INTER PRETATION, HEARING AND DECISION OF DISPUTES, LEAVE OF ABSENCE, MISCEL-LANEOUS, FORFEITURE AND SCHEDULE OF FORMS.

These regulations shall be applicable to all dominion lands, with the exception of those situated in the province of British Columbia, containing gold, silver, cumular, lead, tin, copper, iron or other mineral deposit of economic value, with the exception of oct.

coat.
2. Any person or persons may explore vacant dominion lands not appropriated or reserved by government for other purposes, and may search therein, either by surface or subterranean prospecting, for mineral deposits, with a view to obtaining under these regulations a mining location for the same, but no mining location or mining claim shall be granted until actual discovery has been made of the vein, lode or deposit of mineral or metal within the limits of the location or claim.

### QUARTZ MINING.

3. A location for mining, except for fron, on veins, lodes or ledges of spartz or other rock in place, shall not exceed the following dimensions: Its length shall not be more than fifteen mindred feet, its breadth not more than six hundred feet, its surface boundaries shall be four straight these and the slade-lines and endlines shall be parallel lines, except where prior locations may prevent, in which case it may be of such shape as may be approved by the superintendent of mines. Its length shall not be more than three times its breadth, its boundaries beneath the surface shall be the vertical planes in which its surface boundarie, lie.

4. Any person having discovered a mineral deposit may obtain a mining location therefor, under these regulations, in the following manner:

4. Any person having discovered a mineral deposit may obtain a mining location therefor, under these regulations, in the following manner:

(at He shall mark the location on the ground by placing at each of his four corners a wooden post, not less than four inches square, of his four corners a wooden post, not less than four inches square, of his four corners a wooden post, not less than four inches square, of his four corners a wooden post, not his shall be made of the square that height showe it. If the ground he too rought to define of the decident of the place of his place, a cairn or mound of stones at least three feet in diameter at the base, and eighteen heches high. If the location he finhered, a line shall be run and well blazed joining the said posts. If it he not so transfered, and the ground is of such as of the line is shall be planted or mounded along the skidling bosts. If it he not so transfered, and the ground is of such as directions of the line is shall be planted or mounded along the side-lines wherever necessary, so that no difficulty may be experienced by a subsequent prospector or explorer in discovering or following the boundaries of any location. If the location he had on the peak of the boundaries of any location. If the location he had on the location, legibly, with a cutting instrument, or with colored chalk, his name in hull, the date of such marking, and the letters. V. L. Xo. I. to indicate that the post is mining location post No. I. Proceeding next to the southeasterly angle of the location, he shall easily and the shall mark with the letters M. L. Xo. I. and his hillias; mext for the southeasterly angle of the location, he shall easy that the shall mark with the letters M. L. Xo. A. and his hillias; and lastly, to the northwesterly angle of the location, the host planted at which he shall mark with the letters M. L. Xo. A. and his hillias; and lastly, to the northwesterly angle of the location, the host planted at which he shall mark with the letters M. L. Xo. A. and his hillia

the nearest suitable point of a witness-post, which in that case

the nearest suitable point of a witness-post, which in that case shall contain the same marks as those prescribed in this clause in regard to corner posts, together with the letters W. P., and an indication of the bearing and distance of the site of the true corner from such witness-post, that his manner any subsequent prospector, informed of these regulations, will, on finding any one of the posts or mounts, be enabled to follow them all around, or in marking out another leading in the cleaning of middle any one of the posts or mounts, he enabled to follow them all around, or in marking out another leading in the cleaning for the marking out another leading in the cleaning of the cleaning of the district in which the leading in the dominion lands office for the district in which the leading is stutted a declaration, under oath, according to Form A in the schedule to these regulations (which may be sworn to before the solid agent, or may have been previously sworn to before the solid agent, or may have been previously sworn to before the solid agent, or may have been previously sworn to before the solid agent, or may have been previously sworn to before the solid agent, or may have been previously sworn to before the solid agent, or may have been previously sworn to before the solid agent, and the schedule to these regulations of the location marked out by him as aforesid; and shall, along with such declaration, pay to the said agent an entry fee of 53.

(c) The agent upon such payment being made shall grant a recept according to the Form B in the schedule to these regulations. This receipt shall authorize the clamman, his legal representation, and subject to its renewal from year to year cherevalition, or, and subject to its renewal from year to year cherevalition, or, and subject to disc renewal from year to year cherevalition for, and subject to disc receipt he or they shall expend in actual mining operations on the claim at least 5m, and furnish to the agent of dominion lands within each and every year a fu

shall not be applicable in any manner or for any purpose to any differ location.

5. At any time before the expiry of five years from the date of his entry for his mining location, the claimant shall be entitled to purchase the said location upon filing with the agent proof that he has expended not less than \$50 and actual maing operations on the same, and that he has in every other respect compiled with requirements of these regulations.

6. The price to be paid for a mining location shall be at the rate of \$8 per arc, cash.

7. The price to be paid for a mining location shall be at the rate as a mining location, and saying the therefor, as hereinbefore provided, the claimant shall also deposit with the agent the sum of \$8, which shall be deemed payment by him to the government for the survey of his location; and upon receipt of the plans and field-notes, and the approval thereof by the surveyor-general, a patent shall issue to the claimant in the Form F in the schedule hereto. If, on account of its remoteness or other cause, a mining location cannot at the tent of the deposit of \$8 by the applicant for the purpose be surveyed by the government for that sun, he shall be subject to the

alternative of waiting until the employment of a surveyor by the government on other work in the vicinity of the claim renders it convenient to have the survey made at a cost not exceeding \$50, or of somer procuring, at his lown cost, its survey by a duly commissioned surveyor of dominion lands, under instructions from missioned surveyor of dominion lands, under instructions from and fold-inotes, of the survey and approval thereof by the survey and approval thereof by the survey and approval thereof by the survey of the survey and approval thereof by the survey and approval thereof by the survey and approval thereof by the survey of the location of calm on his or their part to acquire the shall lapse, and the location of claim on his or their part to acquire the survey of the hocation or claim on his or their part to acquire the shall lapse, and the location shall thereupon revert to the crown, and shall be held, along with any immovable improvements son, or as the minister of the interior may direct.

(a) In cases where applications for mining locations are made in respect of lands within surveyed townships, they must conform to the regular system of surveys; that is, the location shall be either legal subdivisions or regular subdivisions thereof; and prior to the application being granted it shall be necessary to stake out the location of the surveyor-general, within one year thereafter.

(b) If applications for mining locations are made within a

unner instructions from the surveyor-general, within one year thereafter.

(b) If applications for mining locations are made within a township of which at least one boundary has been surveyed, to protect himself the discoverer may stake out his claim in conformity with these regulations; but before the issue of the patent, the claim shall, if required by the minister of the interfor, be dead of the control of the claim shall, if required by the minister of the interfor, be dead of the control of

Not more than one mining location shall be granted to any

11. Not more than one mining location shall be granted to any individual claimant upon the same lode or veio.

12. Where land is used or occupied for milling purposes, reduction-works or other purposes incidental to mining operations, either by the proprietor of a mining location or other person, such land may be applied for and patented, either in connection with or separate from a mining location, in the manner herein before provided for in the application for and the patenting location, and may be held in addition to any such mining location; but such additional land shall in no case exceed five acres in extent, and shall be paid for at the same rate as a mining location.

ing location.

13. The minister of the interior may grant a location for the mining of iron not exceeding one hundred and sixty acres in area, which shall be bounded by the north and south and east and west lines, and its breadth and length shall be equal: Provided, that should any person marking an application purporting to be for the purpose of mining iron thus obtain, whether in good tailth or fraudulently, possession of a valuable mineral deposit the area bereinberne prescribed for other minerals, and the rest of the location shall thereinbe revert to the crown for such disposition as the minister may direct.

14. When there are two or more amplicants for any mining.

of the location shall thereupon revert to the crown for such disposition as the minister may direct.

14. When there are two or more applicants for any mining location, no one of whom is the original discoverer or his assignee, the minister of the interior, if he sees if to thispose of assignment of the receipt of the early fit of the location of the property of t

16. If application be made under the next preceding clause by the assignee of the right to purchase a mining location, and such claim is duly recognized and registered, as hereinbefore provided, such assignee shall, by complying with these regula-tions, become entitled to purchase the location for the price and on the terms prescribed thereby.

### PLACER MINING.

17. The regulations hereinbefore laid down in respect of quartz mining shall be applicable to placer mining so far as they relate to entries, entry fees, assignments, marking of locations, agents' receipts, and generally where they can be applied, save and except as otherwise herein provided.

### NATURE AND SIZE OF CLAIMS

18. The size of claims shall be as follows:

(a) For "bar diggings," a strip of land one hundred feet wide at high-water mark, and thence extending into the river to its lowest water level;

at high-water nurie, and thence extending into the river to its lowest water level.

(b) For "dry diggings," one hundred feet square.

(c) "Creek and river claims "shall be one hundred feet long, measured in the direction of the general course of the stream, and shall extend in width from base to base of the hill or bench on each side, but when the hills or benches are less than one provided, however, that in any case where the distance from base to base of the hill or bench exceeds ten chains, such claims shall be laid out in areas of ten acres each, the boundaries of such areas to be acres each the boundaries of such areas to be acres each the boundaries of such areas to be due north and south and east and west lines and if within surveyed territory the said area of ten acres shall consist of one-fourth of a legal subdivision, and shall be marked out the property of the same and if within surveyed territory the said area of ten acres shall consist of one-fourth of a legal subdivision, and shall be marked out the property of the same intersected by creek or river shall, in addition to the stakes at the four corners thereof, have the points at which its boundaries may be intersected by the high-water mark of the recek or river, on both sides of the creek or river, designated by posts of the same size which shall be driven into the ground the same depth and showing the same length above it as the post-tions, and the said posts shall have marked upon them legibly, with a cutting instrument or with colored chalk, the name of the claimant in full and the date of such marking.

(d) "Bench claims" shall be one hundred feet square, (e) Every claim on the face of any hill, and fronting on any natural stream or ravine, shall have a frontage of one hundred feet, from the stream or ravine, shall have a frontage of one hundred feet, of these regulations.

(f) If any person or persons shall discover a new mine, and such discovery shall be established to the sattaked to the satisfaction of the

tion 4 of these regulations.

(f) If any person or persons shall discover a new mine, and such discovery shall be established to the satisfaction of the agent, elains of the following size, in dry, bar, bench, creek or hill diggings, shall be allowed:

To one discoverer.

300 feet in length.

..... 600 " a party of two...

and to each mour and a party beyond for 1500 and to each mour of a party beyond for 1500 and to each gaze only.

A new Stratum of auriferous earth or gravel, situated in a locality where the claims are abandoned shall, for this purpose, be deemed a new mine, although the same locality shall have been previously worked at a different level; and dry diggings discovered in the vicinity of barr diggings shall be deemed a new mine. and vice versa

### RIGHTS AND DUTIES OF MINERS.

BIGHTS AND DUTIES OF MINERS.

19. The forms of application for a grant for placer mining and the grant of the same shall be those contained in Forms H and I in the schedule hereto.

20. The entry of every holder of a grant for placer mining must be renewed and his receipt relinquished and replaced every year, the entry lee being paid each time. The tentry the being paid each time, the cutry televising the leading of the control of more than one mining claim in the same locality, but the same miner may hold any number of claims by purchase, and any number of miners may unite to work their claims in common upon such terms as they may arrange, provided such agreement be registered with the again arrange, provided such agreement be registered with the again and a fee of \$2 paid to the agent with os half thereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule hereupon give the assignee a certificate in Form J in the schule

seem reasonable.

24. Every miner shall be entitled to the use of so much of the water naturally dowing through or past his claim, and not already lawfully appropriated, as shall, in the opinion of the superintendshall be entitled to drain his own claim free of charge.

25. A claim shall be deemed to be abandoned and open to occupation and entry by any person when the same shall have remained unworked on working days by the grantee thereof of the space of seventy-two hours, unless shekness of other reasonable cause be shown or unless the grantee is absent on letwe.

26. A claim granted under these regulations shall be continuously and in good faith worked, except as otherwise provided, by the grantee thereof or by some person on his behalf.
27. In tunneling under hills, on the frontage of which angles occur or which may be of an oblong or elliptical form, no party shall be allowed to tunnel from any of the said angles or from either end of such hills, so as to Interfere with parties tunneling from the main frontage.

from the main frontage.

28. Tundes and shafts shall be considered as belonging to the claim for the use of which they are constructed, and as abundanced or forfeited by the abandanment of orfeiting of the claim isch, 29. For the more convenient working of back claims on benches or slopes, the superintendent of mines may permit the owners thereof to drive a tunnet through the claims fronting on any creek, rayine or water-course upon such terms as he may deem expedient.

### ADMINISTRATION.

an, in case of the death of any miner while entered as the holder of any mining claim, the provisions as to abandonment shall not apply either during his last liness or after his decease.

31. The uninster of the interior shall take possession of the mining property of deceased and may cause such mining property shall sell the property by private sale or after ten days' notice thereof, by unble anction, mon such terms as he shall deen just, and out of the proceeds pay all costs and charges hearred thereby and pay the balance, if any, to the legal representatives of the said deceased uniner.

22. The minister rare of all the property of deceased miners until the issue of letters of administration.

### RED-ROCK FLUMES

BED-ROCK FLUMES.

33. It shall be lawful for the minister of the interior, upon the application bereinarter mentioned, to grant to any bed-rock time company, for any term not exceeding five years, exclusive rights of way through and entry upon any mining ground for the rights of way through and entry upon any mining ground for the rights of way through and entry upon any mining ground for the rights of way through and entry upon any mining ground for the rights of way through and entry upon any mining ground for the rights of way through and entry upon any mining ground for the rights of way through and extend the mines of the applicants and the nature and extent of the privileges sought to be acquired. Ten full days notice thereof shall be given between the months of Movember, and helveen the months of Movember and June one planted in some conspicuously upon the inner walls of the rock and a copy thereof conspicuously upon the inner walls of the rock and a copy thereof conspicuously upon the inner walls of the land-office of the district. Prior to such application, the ground included therein shall be marked out in the manner prescribed in Subclause (a) of Clause 4, of these regulations, It shall be competent for any person to protest before the agent within the laws for emberoder prescribed for the notice of such application. Every application for a grant shall be accompanied by a deposit of \$100, which shall be returned if the application be refused, but not otherwise.

35. Every snell grant shall be in writing in the Form K, in the schedule hereto.

36. The holders are may part in a bed-rock fune in their clausible to the days in the property of the company.

37. Every bed-rock funne company shall lay at least fifty feet of function of the company shall lay and of as strong materials as that built by such company, shall pay least fifty feet of function of the company shall and the shall register the same and one hundred test animally the agent shall register the same and one hundred test animally the agent

legally held by them.

### DRAINAGE OF MINES.

40. The minister of the interior may grant to any person or per

40. The minister of the interior may grant to any person or persons permission to run a drain or tinnel for drainage purposes through any occupied mining land, and may give such persons exclusive rights of way through and entry upon any mining ground for any term not exceeding five years, for the purpose of constructing a drain or drains for the drainage thereot.
41. The grantee shall compensate the owners of lands of holders of claims entered upon by hum for any damage they may sustain by the construction of such tunnel or drain, and such construction of mines and be paid before such drain or tunnel is constructed for indicated and the paid before such drain or tunnel is constructed.

structed.

42. Such drain or tunnel, when constructed, shall be deemed to be the property of the person or persons by whom it shall have been so constructed.

43. Every application for a grant shall state the manes of the 45. Every application for a grant shall state the manes of the 45. Every application of the proposed drain or drains, the amount of toll (if any) to be charged and the privileges sought to be nequired, and shall, says where the drain is intended only for the drainage of the claim of the person constructing the same, be accompanied by a deposit of \$25, which shall be refunded in ease the application shall be given and protests may be made in the same naturer as provibed in regard to bestrock funnes.

44. The grant of the right of way to construct drains and tunnels shall be made in the Form L, in the schedule hereto. The grant shall be registered by the grantes in the office of the agent, to whom he shall at the time pay a registration fee of \$8.0 an animal rent of \$10 shall be paid, in advance, by the said grantee for each quarter of a mile of right of way begally held by him, save where the drain shall be for the purpose of draining only the claim of the person constructing the saine.

### DITCHES.

45. The minister of the interior may, upon application bereinafter mentioned, grant to any person or persons, for any term not exceeding five years, or in special cases for such length of most exceeding five years, or in special cases for such is eight of from any stream or lake at any particular part, thereof, and the parpose of constructing diches and humes to convey such water; provided, always, that every such grant shall be deemed as appurtuant to the mining claim in respect of which it has been obtained, or is required in connection with reduction works, works connected with mining operations, and whenever the claim shall have been worked out or abundoned, or whenever the claim shall have been worked out or abundoned, or whenever the consistent with mining operations, and whenever the claim or in the use of such water upon the claim or in connection with such works shall have permanently ceased, the grant shall be case and determine.

6. Twenty days notice pre-schedule to those regulations, part of the land-ollec for the district, and any person may profest within any such twenty days, but not afterward, against such application being wholly or partially granted.

7. Every application for a grant of water exceeding two hundred lines shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refunded in case the application is refused, but not other shall be refused as the same many case . The minister of the interior may, upon application herein-

wise,

8. Every such application shall state the names of the applicants, the name or description of the stream or lake to be diverted, the quantity of water to be taken, the locality for its distribution, the price off any, to be charged for the use of such water, and the time necessary for the completion of the ditch. The grant shall be in the Form X in the schedule hereto.

18. Every grant of a water privilege on occupied creeks shall be subject to the rights of such uniters as shall, at the time of head, and of any other persons lawfully using such water or any purpose whatsucer.

5.6. If, after the grant has been made, any whiter or anioes.

be subject to the rights of such miners as shall, at the time of such grant, be working on the stream above or below the ditch head, and of any other persons lawfully using such waterfor any purpose that such as been made, any miner or miners becate and bena fide work any mining chain below the ditch head on any stream so diverted, he or they collectively shall be entitled to forty luches of water if two hundred inches be diverted, and sixty inches if three hundred luches be diverted, and sixty inches if three hundred luches be diverted, and in one, every tipon paying to the owner of the ditch, and all other persons interested therein, compensation equal to the amount of water as may be required; and in computing such damage, the loss sustained by any claims using water therefrom and all other reasonable losses shall be considered.

3. No person shall be entitled to a grant of the water of any stream for the purpose of sellhe the water to present or future claim-holders on any part of such stream. The minister of the interior may, however, grant such privileges as he may drow stream for the purpose of sellhe the water to present or future claim-holders on any part of such stream. The interior may, however, grant such privileges as he may drow from any such stream, provided that the rights of miners then using the water so applied for be protected.

3. The minister of the interior may, on the report of the superintendent of mines that such action is desirable, order the entrement of a such as a such as

days' notice, in writing, of such intention shall be given, before entering or approaching within four feet, of such other property, 58. Any person engaged in the construction of any road or work may, with the sanction of the minister of the interior, cross, divert or otherwise interfere with any difeh, water privilege or other mining rights whatsoever, for such period as the minister

other mining rights whatsoever, for shen period as the ministershall approve,
50. The minister shall order what compensation for every such
damage or interference shall be pail, and when, and to whom,
and whether any and what works damaged or affected by such
interference as aforesaid shall be replaced by flumes or otherwise repaired by the person or persons inflicting any such damage,
60. The owners of any ditch, water privilege or mining right
shall, at their own expense, construct, secure and maintain all
culterts necessary for the passage of waste and superfluous
water flowing through or over any such ditch, water privilege or
right.

water flowing turioga over 161. The owners of any ditch or water privilege shall construct 162. The owners of any ditch or water privilege shall construct 163. The owners of any officer and substantial manner, and maintain the same in good repair, to the satisfaction of the super-intendent of mines, and so that no damage shall occur to any road or work in its cleinity from any part of the works of such ditch, water writing our right. water privilege or right.
62. The owners of any ditch, water privilege or right

C. The owners of any ditch, water privilege or right shall be table, and shall make good, in such nanner as the superintendent of mines shall determine, all damages which may be occasioned by or through any part of the works of such ditch, water privilege or right breaking or being imperfect.
63. Nothing herein contained shall be construed to limit the right of the lieutenant governor of the North-West Territories in council, or of the proper authority in any province containing dominion lands, to lay out, from time to time, public roads across, through, along or under any ditch, water privilege or mining right, without compensation.

### GENERAL PROVISIONS.

### INTERPRETATION.

64. In these regulations the following expressions shall have the following meanings respectively, unless inconsistent with the context; "Minister" shall mean the minister of the interior, "Agent" or "locat agent" shall mean the agent of dominion lands for the district, or other officer appointed by the government for adjusting the context of the district, or other officer appointed by the government for same properties of the district of the district, or other officer appointed by the government for same properties of the district of t

# HEARING AND DECISION OF DISPUTES.

HEARING AND DECISION OF DISPL'TES.

65. The superintendunt of mines shall have power to hear and determine all disputes in regard to mining property arising within his district, subject to succeed to mining property arising within his district, subject to succeed to the commissioner of dominion lands.

66. No particular forms of procedure shall be necessary, but the matter complained of must be properly expressed in writing, and a copy of the complaint shall be served on the opposite party not less than seven days before the hearing of the said complaint.

67. The complaint may be leave the superintendent of mines, be amended at any time before or during the proceedings.

68. The complaint proves to have been well founded, and not otherwise, except for special cause, by direction of the minister of the interior.

69. In the event of the decision of the superintendent of mines.

of the interior.

(3) In the event of the decision of the superintendent of mines being made the subject of an appeal to the commissioner of dominion lands, the appealant shall, at the time of todging the appeal, deposit with the igent a bone-fee of \$20, which shall be returned to the said appeal proves to have been well founded, and not otherwise, except for special cause, by direction of the uninster of the interior must be lodged with the superintendent of mines not more than three days after his decision has been communicated in writing to all the parties interested, and must state the grounds upon which the said decision is appealed from,

appealed from,

an expected for the commissioner of dominion lands decides that it is necessary to a proper decision of the matter in issue to have an investigation on the ground, or, in cases of disputed boundaries or measurements, to employ a survey to mensure or survey the land in question, the expense of the inspection or re-measurements or resurvey, as the case may be, shall be borne by the

litigants, who shall pay into the hands of the said commissioner, in equal parts, such sum as he may think sufficient for the same, before it takes place; otherwise, it shall not proceed, and the party who refuses to pay such sum shall be adjudged in default. The said commissioner shall subsequently decide in what proportion the said expense should be horne by the parties respectively, and the surphisage, if any, shall then be returned to the parties.

and the surphisage, if any, shall then be returned to the parties, as he may orders. alphabed as foreited and all payments re2. All bonds are least preceding section shall, as soon as decision has been rendered, and all entry and other fees or moneys shall, as soon as they have been received by him, he paid by the said agent or commissioner to the credit of the receiver-general in the same manner as other moneys received by him on account of dominion lands.

### LEAVE OF ABSENCE.

73. The agent in each district shall, under instructions from the minister of the interior, declare the close season in his district. 74. Each holder of a mining location or of a grant for placer mining shall be entitled to be absent from his mining location or diagrings and to suspend work thereon during the close season. 75. The agent shall have power to grant leave of absence to the holder of a mining location or grant for placer unining pending the decision of any dispute in which he is concerned under these regulations.

regulations.

76. In cases where water is necessary to the continuance of mining operations, and the supply of water is insufficient, the superintendent of mines shall have power to grant leave of absence to the holder of the grant during such insufficiency, but no longer, except by permission of the minister of the interior.

77. Any miner or miners shall be entitled to leave of absence for one year from his or their diggings, upon proving to the satisfaction of the superintendent of mines that he or they has or have expended on such diggings, in eash, labor of machinery, an any return of gold or other minerals in reasonable quantities for such expenditure.

78. The time reasonably occupied by the locator of a claim in going to and returning from the office of the agent or superintendent of mines to enter his claim, or for other purposes prescribed by these regulations, shall not be counted against him, but he shall, in such cases, be deemed to be absent on leave.

MISCELLANFOUS.

### MISCELLANEOUS.

but he shall, in such cases, he deemed to be absent on leave.

MISCELLANEOUS.

79. The minister of the interior shall, from time to time, as he may think fit, declare the boundaries of mineral and mining districts, and shall cause a description of the same to be published in the transdate to the interior may direct mineral and mining districts, and shall cause a description of the same to be published in the transdate to the interior may direct mineral and mining the strength of the director of the geological survey, or from other information, he has reason to believe there are mineral deposits of economic value, and may sell the same to applicants therefor, who, in his opinion, are able and intend in good faith to work the same; or he may, from time to time, cause the said locations to he sold by public auction or tender. Such sales shall be for cash, and at prices in no case lower than those prescribed for locations sold to region of these regulations.

31. The minister of the interior may grant to any person or persons who have a mining location and are actively developing the same, an additional location adjacent to and not exceeding it in area, provided the person or persons bolding such location shall show to the satisfaction of the minister of the interior that the vein or lode being developed on the location will fine sale being developed on the location will be sale boundaries of the location before it has reached the depth at which it cannot be profitably mined.

32. Persons desirous of obtaining quarries for stone on vacant dominion lands may do so under these regulations; but the minister of the interior may require the payment of a royalty not exceeding five each intervals any he sold not subject to such royalty at such price or amount he received for the same.

34. The minister of the make by the grantee, sworn to by him, or by his agent or other employe in charge of the mine, at monthly or other such intervals as may be required by the minister of the interior, of all products of his mining locat

### FORFEITURE.

s6. In the event of the breach of these regulations, or any of them, by any person holding a grant for quartz or placer mining from the crown other than crown patents, or from the minister of the interior, or from any duly authorized officer of dominion lamis, such right or grant shall be absolutely forefried ipso fact, and the person so offending shall be inequable thereafter of acquiring any such right or grant, mless for special cause it is otherwise decided by the minister of the Interior.

### SCHEDULE TO MINING REGULATIONS.

FORM A.—APPLICATION AND AFFIDAVIT OF DISCOVERER OF QUARTZ MINE.

1 (or we), (A. B.)... of hereby apply, under the dominion mining regulations, for a mining location in (here give general description of locality)..., for the purpose of mining for .... (here name the metal or mineral) and I (or we)

mining for ... there name the metal or interval) and I (or we) hereby solemnly swear;

1. That I (or we) have discovered therein a deposit of there name the metal or inhereal.

2. That I (or we) am (or are), to the best of my (or our knowledge and belief, the first discoverer or discoverers of the said deedge and belief, the first discoverer or discoverers of the said de-

That I (or we) am (or are) unaware, that the land is other

3. That the same annuing overage entering a cres, and that the description cand sketch it any, of this date hereto attached, signed by ne (or us, sets orset) forth in detail, to the best of my (or our) knowledge and ability, its position, form and dimensional control of the c

day of 4 Signature, 1

Note, In case of abandoned ground it may be necessary to omit  $N_0$ , 2.

FORM B. RECEIPT FOR FEE PAID BY APPLICANT FOR MINING LOCATION.

# DEPARTMENT OF THE INTERIOR.

DOMINION LANDS OFFICE, Agency

Received from (A. B.) of Scheing the ferequired by Subsection (b) of Horse 4 of the dominion mining regulations, accompanying his or their cappleation, No dated.

I for a mining location in their application, No dated.

I for a mining location in the frequency of the dominion mining resemble to the first property of the said their location of locatility.

This receipt authorizes the said (A. B.) his or their legal representatives or assigns, to enter into possession of the said mining location, and, subject to the payment of a fee of Sand the renewal of this form of receipt on or before the beginning of each year, during the term of five years from this date, to take therefrom and dispose of any mineral deposit contained within its boundaries, and, on due compliance at any time within that period with the several requirements in that behalf or the said mining regulations, entitles him or them to purchase the said location, which, provisionally, and until survey thereof, may be known and described as follows: (insert description in detail).

the doil).

If the said (A. B.) or his cor their) legal representatives or assigns Gai (accomply, as aforessid, with the conditions that would entitle him or filen to purchase, within the years that would entitle him or filen to purchase, within the years make payment in full for the land, and also pay the sum of sac make payment in full for the land, and also pay the sum of sac prescribed in the said regulations for the survey of the location, then the right to purchase shall lapse, and the mining location shall revert to the crown, to be otherwise disposed of as may be directed by the minister of the interior.

FORM C. RECEIPT FOR ANNI AL FEE FOR RENEWAL OF LOCA TION CERTIFICATE.

# DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE, Agency

BOMINIOS LANDS OFFCE.

Received from. A. B. of S5, being the fee required by Subsection (c), Section 4, of the dominion mining regulations, accompanying his our their) application No dated. Bs., respecting the mining location described as fained entry No on the state of the sta

FORM D.—CERTIFICATE IN CASES OF PARTNERSHIP THAT ANNUAL EXPENDITURE MAY FOR FIRST TWO A KARS AFTER RECORDING CLAIMS FOR MAY ONE OF THE CLAIMS AFFECTED BY SUCH PARTNERSHIP.

DEPARTMENT OF THE INTERIOR.
DOMINION LANDS OFFICE, . Agency.

DOMINION LANDS OFFICE.

This is to certify that in accordance with the provisions of Subclause (d) of Clause 4 of the dominion mining regulations of Subclause (d) of Clause 4 of the dominion mining regulations of the continuous control of the con

FORM F. RECEIPT TO BE GIVEN FOR FEF PAID IN CASE OF

PORM E.—RECEIPT TO BE GIVEN FOR FEE PAID IN (ASE OF PARTNERSHIP.)

No DEPARTMENT OF THE INTERIOR.

DOMINOS LANIS OFFICE.

Received from (A. B.) of S., being the fee required by Subschuse (d) of Clause Lot the dominion mining regulations accompanying his cor their) application. No have a follows consert description in details, for which he (or they) obtained entry No on the day of S. From evidence furnished by the said application No it From evidence furnished by the said application No it From evidence furnished by the said application No it From evidence furnished by the said application No it From evidence furnished by the said application No it for the said and during the term of year from evidence furnished by the said application No it for the said mining location and during the term of year from deposit contained within its boundaries, and, on the compliance at any time within that period with the several requirements in that behalf of the said mining regulations, entitles him or them to purchase the said location, which, provisionally and until survey thereof, may be known and described as above. If the said is the compliance within that time make payment in full for the land and also pay the sum of Sap preservated in the said regulations, for the survey of the location shall revert to the erown, to be otherwise disposed of as may be directed by the units for of the interior.

Supermental constraints are the day of the boundaries of the mining location is the first of the parcels of the program mining location and the supermental program of the location shall report of the interior.

Agent of Dominion Lands

FORM E. PATENT OF A MINING LOCATION

FORM F. PATENT OF A MINING LOCATION.

Victoria, by the Grace of God, of the United Kangdom of Great
Britain and Ireland Queen, befender of the Faith, to all to
whom these presents shall come. Greeting.
Knowy e that We do by these presents, for Us, Our heirs and
successors, in consideration of 4the fulfillment of the dominion
between the being and assigns, all that parcel or 10 of Janal Stuate and numbered on the official plan or survey of
the said to have and to hold the said parcel of fand
and all minerals, precious and base, which may be found therein,
unto the said beits and assigns forever:
Provided, that it shall at all times be lawful for Us, Our heirs
and successors, or for any person by Our authority, to resume
any portion (not exceeding one-twenfield part) of the said band
for making roads, canads, bridges, towing paths or other works
for making roads, emaks, bridges, towing paths or other works
be nade of land on which any person buildings may have been
creeted, without compensation:
Provided, also, that it shall be havful tor any person duly authorized by Us, Our heirs and successors, to take and occupy such
water privileges and to have and enjoy such right of carrying
water over, through or under any parts of the hereditaments
hereby granted as may be reasonably required for agriculturator
other purposes in the vicinity of the said land, upon paying
therefor a reasonable compensation to the aforesaid heirs
and assigns. and assigns

FORM G. CERTIFICATE OF THE ASSIGNMENT OF A MINING LOCATION.

DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE. , Agency

This is to certify that (B. C. of, last call have filed an assignment in due form, dated 18 , and accompanied by a registration fee of \$2, of the right of

(A. B.) of to purchase the mining location in there is a requerred description of locality) applied for by the said (A. B.) on the 18.

This certificate entitles the said (B. C.) or his (or their legal representatives or assigns, to all the rights and privileges of the said representatives or assigns, to all the rights and privileges of the said (B. C.) or the respective of the said or the said in the properties of the said (A. B.) and the right of the rig

not in defail.)

If the said (B,C), or his tor their legal representatives or assigns fall to compty as aforesaid with the conditions that would entitle him or them to purchase within year of the date of the receipt granted to (A, B,), and now deposited with me, or, having so compiled, do not within that time make payment in full for the land and also pay the sum of tion, then the right to purchase shall lapse and the minima location shall revert to the crown, to be otherwise disposed of, as may be directed by the minister of the interior.

Agent of Dominion Lands. on in detail,)
If the said .

# FORM H,—APPLICATION FOR GRANT FOR PLACER MINING AND AFFIDAVIT OF APPLICANT.

Sworn before me at this..... day of

# FORM L-GRANT FOR PLACER MINING. DEPARTMENT OF THE INTERIOR, DOMINION LANDS OFFICE.

DOMINION LAND OFFICE.

In empideration of the payment of 85, being the SOFFICE.

In empideration of the payment of 85, being the fee required the provisions of the dominion mining regulations. Clauses 4 and 30, by the previsions of the dominion mining regulations. Clauses 4 and 30, by the soffice of the s

ciain, rree of enarge.

This grant does not convey to the said ... (A, B.) any surface rights in the said claim, or any right of ownership in the soil covered by the said claim; and the said grant shall lapse and be forfeited unless the claim is continuously and in good faith worked by the said ... (A, B.) or his other asso-

entes. The rights hereby granted are those laid down in the afore-said mining regulations, and no more, and are subject to all the provisions of the said regulations, whether the same are ex-pressed herein or not. . . . . . Agent of Dominion Lands.

FORM J. CERTIFICATE OF THE ASSIGNMENT OF A PLACER MINING CLAIM.

MINING CLAUM.
DEPARTMENT OF THE INTERIOR.
DOMINION LANDS OFFICE,
... Agency......

18 This is to certify that (B. C.) Agency, 18 have ideal an assignment in due form dated 18 has (or laceompanied by a registration fee of \$2, of the grant to (A. B.) of defining the incorporate of the grant to (asset) of the right to mine in (asset) description of claim (but on the companies). This certificate entitles the said. (B, C). to all the rights and privileges of the said. (A, B, ). In respect of the claim assigned, that is to say to the exclusive right of entry upon the said claim for the minerakes working the right of entry upon the said claim for the minerakes working the right of the proceeds realized therefrom, for the remaining portion of the year for which the said claim was granted to the said. (A, B, ). that is to say, until the day of . Is. The said. (B, C,). shall be entitled to the use of so much of the water naturally flowing through or past his (or their) claim and not already havfully appropriated, as shall be necessible to the december of the day of the result of the said was the claim, free of where the day working thereof, and to drain the claim, free of what the said was the said of the said the claim, free of what was the said of the said the claim, free of what was the said of the said the

charge. This grant does not convey to the said. (B. C.) any surface rights in the said claim, or any right of ownership in the soil covered by the said claim; and the said grant shall lapse and be forfeited unless the claim is continuously, and in good faith, worked by the said (B,C). or his (or their) associated with the said grant shall have the said of the s

and the rights hereby granted are those hid down in the dominion mining regulations, and no more, and are subject to all the previsions of the said regulations, whether the same are expressed herein or not have a subject to all the previsions of the said regulations, whether the same are expressed herein or not have a subject to the said of the said subject to the said of the

FORM K.-GRANT TO A BED-ROCK FLUME COMPANY.

two hundred teet nor m - when the company giver, creek, the company six of way through and entry upon any giver, creek, the trainers worked by miners for any period longer than two years, prior to such entry, and already wholly or partially abandoned, and the exclusive right to stake out and work both the unworked and abandoned portions thereof, one hundred feet in width and one-quarter of a mile in length for each individual the company.

the unworked and abandoned portions thereof, one hundred feet in width and one-quarter of a mile in length for each individual of the company;

(c) The rights of entry through and entry upon all claims which, at the time of the notice of application, are in good faith being worked for the jurpose of cutting a channel and laying their taining and repairing the flume as may be necessary;

(d) The use of so much of the unappropriated water of the stream on which they may be located, and of other adjacent straums, as may be necessary for the use of their flumes, hydraulic power and natchinery to carry on their operations, and the right of way for ditches and funes to convey the necessary with the may be ordered and applications, and the right of way for ditches and funes to convey the necessary with the may be order to other parties by running such ditch or flume through or over their ground;

Provided, that the rights herein granted shall apply only to such claims and streams as are here specified. (itsert description of claims and streams). and such other claims and streams as may, after due notice and application, be subsequently added to the above list by the minister of the Interior.

Provided, also, that the said company shall pay to the local agent, in advance, an annual rent of \$10 for each quarter of a mile of right of way legally held by them;

Provided, further, that this grant is subject to all provisions of the dominion mining regulations in that behalf, whether the same are expressed herein or not.

This grant shall cease and determine at the expiration of ... year from the date hereof.

Agent of Dominion Lands.

., Agent of Dominion Lands.

FORM L. EGRANT FOR DRAINAGE.

FORM 1. GRANT FOR DRAINAGE.

No DEPARTMENT OF THE INTERIOR,
DOMINION LANDS OFFICE.

In the consideration of the payment of a decay of \$\$Zero of \$Zero of \$\$Zero of \$\$Zero of \$Zero o

them themselves, in which case such parties shall only be chargeable with one-half the rates of drainage toll herein authorized;
Provided, also, that the said grantee (or grantees) shall compensate the owners of lands or holders of claims entered upon by for any damage they may sustain by the construction of such tunnel of drain.

Provided, nigent, in advance, an annual rent of \$10 for each arter of a mile of right of way legally held by \$10 all the provisions of the dominion mining regulatings in that behalf, whether the same are expressed herein or not gent of \$10 for each arter of a contract of the contract of the same are expressed herein or not gent and the provisions of the dominion mining regulatings in that behalf, whether the same are expressed herein or not gent of the same are expressed herein or not gent of the same are expressed herein or not gent of the same are expressed herein or not gent of the same are expressed to the same are supported to the same are the same are expressed to the same are same and the same are same as the same are same and the same are same are same and the same are same are same are same and the same are same are same are same and the same are same are same are same are same and the same are same are same are same and the same are same a

FORM M. NOTICE OF APPLICATION TO USE AND DIVERT

Notice is bereby given, in pursuance of the provisions of the deminder mining regulations, that I (or we) of a paylor to the expiration of twenty that I (or we) of a paylor to the minister of the interference of Canada, for authority to take, early away and other in the propriet of the interference of the mantered and propriet of the control of the

, 18

day of Dated the FORM N. GRANT OF RIGHT TO DIVERT WATER AND CON-STRUCT DITCHES.

No DEPARTED TO THE INTERIOR.

In consideration of the payment of a deposity of First, Agoney 1s, by Clause 47 of the dominion unline resultations, to be made with the application for the right to divert water and construct difference of the construction of the const

# REGULATIONS

FOR THE DISPOSAL OF COAL LANDS, THE PROPERTY OF THE DOMESTICS GOVERNMENT, IN MANIFORA AND THE NORTH-WEST TERRITORIES, AS EMBODIED IN THE REGILATIONS APPROVED BY ORDER IN COLNCIL CNO. 2563-05-THE 17TH SEPTEMBER, 1889.

SECTION 34, (a), Lands containing anthracite coal may be sold at an upset price of \$20 per acre, cash, and coal other than an-thracite at an upset price of \$10 per acre, cash, or may be sold unbile competition if the minister of the interior shall so decide, (b) Not more than three hundred and twenty acres shall be sold to one anulicant.

(b) Not more than three hundred and twenty acres snat he sold to one applicant for the same set, 3.5 when the minister of the inherior may invite competition between the theorem applicants, or ofter the land for safe at public control the minister of the inherior may invite competition between the three properties of control as the may think expediction that the upset price of contlands.

3. 3. 4. 10 cases where the minister of the interior satisfies himself that companies or persons have expended considerable sums of money in exploring for coal on kinds for which they may have applied under the regulations of the 47th of becember, 1881, the said hands may be sold to safe companies or persons at the upset price fixed for such lands.

3. 8.c. 3.7. The boundaries beneath the surface of coal-mining locations shall be the vertical planes or lines in which their surface boundaries be.

locations shall be the vertical planes or lines in which their safe face boundaries by.

The rights of lessees, and of persons in favor of whom orders in council authorizing leases have been passed, shall not be affected by these regulations.

SEC, 39. The minister of the road for a period of sixty days, and such permission me prospector any single tract of kand not ex-ceeding three households. SEC, 40. It the land sought for be not included in any surveyed

township, the applicant shall stake out the same, by placing at each angle or corner thereof a stake or post at least four inches square, and standing not less that four feet above the surface of the square and standing not less that four feet above the surface of the square represented the special post in the square represented thereby, thus: "A. B.s. S. Commending northeast corner), or as the case may remission for prospect is made, all the proceedings taken for applicant shall be void; also with his application he shall forward to the units the proceedings taken forward to the units for the interior a map or sketch of he tand as staked out, specifying meters and bounds, and should be shall be forward be shall be due north and could and east and west lines, and the length thereof shall be coved twice the breadth; if, however, the land has already the section or sections, parts or legal subdivisions of a section shall be given.

Sec. 4.1. The party or parties to whom permission to prospect

divisions of a section shall be given.

Set, 41. The party or parties to whom permission to prospect may be given shall, within one month from the date of such permission, commence operations and carry on the same continuacyl throughout the remainder of the period expert thereby; and shall expend in such prospecting a sum at the rate of less than 32 per day from the time of contenement of the same; and the permission so given shall become rold if the same; and the permission so given shall be period for which such permission is given.

Set, 42. On annihilation to the minister of the interior, the time.

perior or which such permission is given.

SEC, 42. On application to the minister of the interior, the time-exceed by permission to prospect may be extended, if the applicant late empilied with the above requirements, and provided there are no other applicants for the lands comprised therein; should there be others, however, it will be necessary that the rights to prospect be acquired by competition among the applicants.

appreaux.

SEc. 33, If the time covered by permission to prospect be extended, it will be necessary that prospecting operations be carried on continuously from the date of such extension.

LANDS PYTENTED OR ENTERED, ON WHICH THE MINING RIGHTS BAVE BEEN RESERVED.

SEC. 44. (01) Any person or persons destrous of obtaining permission to prospect for unherals on lands that have been patentied or entered, and on which the union rights have been reserved, shall make application therefor to the minister of the Interior.

(b) Such applied so, which area must not exceed three hundred and

area applied for, which area must not exceed three number and twenty acres.

(c) If the minister of the interior sees no objection to the application being granted, the applicant will be given permission to prospect for a period of sixty days, upon firmishing the minister with proof that he has compiled with the provisions of the lowing subsection:

(d) The applicant shall enter into a bond, with two securities, to the satisfaction of the superintendent of mines, to recompense the owner or occupant of the soil for damages that may be done to his lands.

the owner or occupant of the soil for damages that may be done to 11 the proprietor of lands so entered upon shall seek damages, he shall, before the end of two months after the expiration of the permission given, make his education in writing against the prospector, detailing the part and amount of claim; and the claim is not adjected by agreement between the parties within one month is not adjected by agreement between the parties within one months in the manner prescribed in sections 30 and 30 cm. The permission in the manner prescribed in sections 30 and 30 cm. 4x, 4x, 4x. The permission given to prospect shall be subject to the conditions of section 44 of these regulations.

(b) A renewal for a further period or regulations have been emplied with, but should the prospect has been given, competition among the Somethies in prospect has been given, competition and the permission to prospect shall not appropriate for the manner of the permission of prospect shall authorize entry monany buildings or the curtilage appertaining to any house, store, barn or building or upon any garden, orehard proposed except with the consent of the special application setting forth the minister of the interior cultivation by a continuous control of the permission from the interior with the same is applied for, and on subterns as the at the expiration of the period for which permission has been given to prospect on lands, it is deserted to nearly the mining regulators, less the price reling for surface rights in the class in which the lands may be situated.

See, 48, Refore a patent of the mining rights the related to set when the lands any be situated.

Similard.

Signated.

which the owner or occupant shall be entitled. The notice men-tioned in this section shall be according to a form to be obtained, upon application from the agent of dominion lands, or the con-trict in which the lands in question lie, and shall, when practica-trict in which the lands in question lie, and shall, when practica-ble, be personally served on such owner or his agent if known, or occupant; and after reasonable efforts have been made to effect personal service without success, then such notice shall be served by feaving it at or sending by registered letter to the last place of large personal service without success, the such notice shall be served if the owner or agent resides. It such notice shall be served if the owner or agent resides, it such notice, the land is situated, ten days; if out of the district and within the province, twenty days; and if out of the province, thirty days, and if out of the province, their propriet of the expiration of the time limited in such notice by the proprietor refuses or declines to appoint an arbitrator, or when, tor any other reason, no arbitrator is appointed by the proprie-tor any other reason, in arbitrator is appointed by the proprie-tor any other reason, in a but a but a but a but a but a but a section, the agent is defined in the notice provided for by this section, the agent of the knowledge of such owner, agent or occupant, or that such owner, agent or occupant willfully evades to such notice of such notice or cannot be found, and that reasona-ble efforts have been made to effect such service, and that the

notice was left at the last place of ahode of such owner, agent or occupant, appoint an arbitrator on his behalf.

Sec. 0, (a) the last places appointed under the authority of these regulations shall refer a pointed under the authority of these regulations shall refer to the impartial discharge of the duties about the place of the impartial discharge of the duties and they shall forthwith proceed to estimate the reasonable of their which the owners or occupants of such lands, according to their several interests therein, shall sustain by reason of such prospecting operations, such damages, the arbitrators shall determine the value of the land irrespectively of any enhancement thereof from the existence of mistrators, expecting operations, and the land irrespectively of the prospectively of the prospective of the contraction of the land irrespectively of the prospectively of the prospective of the prospective of the prospective of the prospective of the prospectively of the prospective of the prospective of the prospectively of the prospective of the

A. M. BURGESS, Deputy of the Minister.

Department of the Interior, Ottawa,

# DIGEST OF

# CORPORATION, LIEN AND MINING LAWS

# PROVINCES OF THE DOMENION OF CANADA

WITH THE MINERAL ACT AND PLACER MINING ACT OF BRITISH COLUMBIA IN FULL

1-92

## COMPILED EXPRESSLY FOR THE MIXING DIRECTORY

# BRITISH COLUMBIA

# CORPORATIONS.

How FORMED. Any three or more persons, who may desire to form a company, may make, sign and acknowledge, before some person competent to acknowledge deeds, a memorandum of association of the sound of the sound of the words "limited liability" the object, the amount of capital stock, the number of shares, the time or its existence fort to exceed fifty years, number of shares which the stock shall consist; number of trustees and their names, who shall manage the company for the first three months; and the name of the city, fown or electoral district where the company is "The registranshall that, some."

located.

The registrar shall file such memorandum and inclose duplicate thereof to the provincial secretary, who shall cause the same to published in the next issue of the British Columbia Grazite for at least one month thereafter. The registrar then shall issue a certificate of incorporation; thereupon, the said persons and their snecessors shall be a body politic and incorporate, and shall by their corporate name have snecession for the period limited, and shall have power:

1. To Issue shares.

2. To sne and be sued.

3. To make and use a common seal.

- To suc and be sued.
   To make and use a common seal.
   To purchase, hold, sell and convey such real and personal estate as the purposes of the corporation shall require.
   To appoint officers, agents and servants and define the duties, for a proposition of the season of the season of the season of the corporation of the season of th

within the process of the company, may also be termed directors, which all have all the powers conferred upon the trustees by this act.

No shareholder shall be individually lable for the flabilities of the company, but shall be liable to the calls and assessments to be legally levied upon the shares held by him.

A certificate of incorporation shall be conclusive evidence that the company is duly registered under this act. All companies registered under this act shall have the additional powers to borrow money for the purposes of carrying out the objects of the companies; and to morrigage their property, to sign bills, notes of the capital purposes; which powers shall not be evereised, except with the consent of the shareholders representing two-thirds of the capital stock.

TRESTEES. The corporate powers of the corporation shall be stockholders and residents of this province, who shall be animally elected by the stockholders, but a majority of the trustees shall be residents. A failure to elect the trustees at the designated be residents. A failure to elect the trustees at the designated in office animal the new trustees are elected under their demandance of the company to the whole board may transact business.

STOCK AND STOCKHOLDERS. The stock of a company shall be deemed personal estate, transferable on the books of the company; but no transfer shall be made where there are charges or assessments unpaid. Stockholders' votes may be given either personally or by proxy, but the instrument appointing a proxy shall be idelivered to the secretary twenty-four hours before the individually labe to the or unfailed where there are charges or assessments unpaid balance on his shares of stock. A company morroward under this act may increase or diminish its capital stock to any amount deemed proper for the corporation. Whenever it is

meeting of the stockholders may be called by a notice signed by at least a majority of the trustees and published at least once a week for four weeks in some newspaper of the electoral distract where the principal place of business Is located. A certilicate of the proceedings shall be made out, signed and verified by the affidiavit of the elariman and secretary of the meeting and certical by a majority of the trustees and filed in the same manner as the memorandum of the association. The trustees shall not loan shall be made by the company to any shar bother in the proceedings in the same manner as the memorandum of the association. The trustees shall not such that the made by the company to any shar bother in the point and severally label to the company and to third parties to the extent of said loan. The trustees of the company shall be jointly and severally label to taboriers, servants and apprentices thereof for debts not exceeding three months' wages due.

ASSESSIMENT DELINGLENCY AND SALE, OF STOCK, Trus-

joint) and severally hable to laborers, servants and apprentices thereof for debts not exceeding three months' wages due. Hereof for debts not exceeding three months' wages due. The property of paying the legal expenses and of quarter of the purpose of paying the legal expenses and of quarter of the property of the extent hereinafter provided, and not otherwise. The total amount of assessments shall not expeed, in the aggregate, the value at which the shares were issued. No one assessment shall exceed ten per cent, of the amount of the capital stock actually subscribed, unless where all the powers (vested in the company for the purpose of collecting shall have been exhausted, or where the collection of the previous assessment has harsely of the property of the previous assessment has macely thereof. The trustees any summarily forfeit shares whereon payment of calls and assessments is not made.

REGISTRIA BOOK. It shall be the duly of the trustees to keep a registry-book containing the number of shares of stock held by them respectively, which hook whall be open for the inspection. Dissoit Theo, Any corporation may these itself only excepting to the judge of the county court of the district a certificate of its proper others, setting forth that It was decaded by a vote of two-thirds of all the stockholders to dissoive. Public notice shall set forth the nature of the application, shall specify the time and place it is to be heard and shall be published in some newspaper once a week for four weeks; and if satisfied that the corporation has taken the card may be application, shall specify the time and place it is to be heard and shall be published in some newspaper once a week for four weeks; and if satisfied that the corporation has taken the fourth embary steps, he shall make an order declaring it dissoived.

PREFERIENCE STOCK.

PREFERENCE STOCK. The promoters of a company may state in the memorandium of association that a portion of the stock of the proposed company shall be preferred stock, and may make a by-law authorizing the division of the existing capital into ordinary and preferential.

ordinary and preferential.

REGISTRATION OF FOREIGN COMPANIES. Any foreign company incorporated for the purpose of carrying on any business that has for its object the acquisition of gain, and permitted to operate in the province of British Columbia, may register itself and the members thereof, under this act, by depositing for registration a copy of its act, certificate and charter of incorporation, then of the president and secretary thereof, acknowledged before a notary public of such foreign state, praying for registration. The registrate of joint-stock companies shall issue a certificate of registration, showing the corporate mane, the place of the head office, the objects, the amount of the capital stack of the company, the number of shares, the amount of each share, and such but Gazathe and in one paper in the locality where the company proposes doing business. Such a company may then she and be send in the corporate name and exercise the general powers of a domestic corporation.

FEES TO BE PALD. For registering copy of act, certificate

FEES TO BE PAID. For registering copy of act, certificate and charter of incorporation, articles of association and issuing

certificate, §59, for registering company's offices and mone and address of its neon's Su, for every indire's license, §5 annually (CLANGE OF NAME). When an incorporated company is desirnous of change the name, the attorney-general may, by order in comedl, change the name of the company. The company shall give at least three-months' previous notice in the British Columbia Gazethe, and in some newspaper published in the locality of the company, of the Intention to apply for the change of name.

### LIENS

Liens of Mediannes. Unless there is an agreement in writing to the contrary, every mechanic, aritisan architect, contractor, sub-contractor, builder, superintendent, timekeeper, mill-owner, merchant, laborer or other person doing work or furnishing material to be used in the construction or repairing of any building, erection of wharf, bridge or other works, or in connection with the clearing, execuating, ulling, grading, draining or irrigating any land in respect to any railway, mine, sewer, drain, direction of the contract of such work or furnishing have a lien for the price of such work or materials upon such building, wharf, machinery, takings or other works and the land occupied thereby, but limited in amount to the sum actually owner to be such use in the limited in amount to the sum actually owner to be such use of the contract have been paid in full.

Red Strikation, and Transmission—Every, lien, as afore-LIENS OF MECHANICS. Unless there is an agreement in writ-

in amount to the sum actually owing the person entitled to their. No contractor sub-contractor shall receive anything under his hen until all the persons employed by him or engaged to furnish materials for his contract of sub-contract have been the formulation of the contract of the contract of the contract of the contract have been displayed and have been despended and all absolutely cease to exist after the expiration of thirty-one days after the work has been completed or materials furnished materials therefor, unless he shall in the meantime file in the office of the government agent in de district wherein the land is slituated and the contractor of the government agent in de district wherein the land is slituated at the contractor of the property and the intervening contractor or sub-contractor through whom he claims; (b) the particular kind of work or materials furnished; (c) the time when the work was finished or the last article of material delivered; (d) if the felic his for materials in question and were delivered on the contractor of the contractor of the contractor of the work of improvements in question and were delivered on the charged; which afidavit shall be filed as a lien against such case of the contractor of the death of hea-holder, his lien shall basis to his personal representatives, and the right of lien may be assigned by any instrument in writine of any lien, no portion of the property affected thereby shall be removed, and any attempt the country court nearest to which the hand is situated if the cian is under 3 (sow.) No contractor or sub-contractor shall be entitled to receive payment where the contract price exceeds \$500 until he hall have delivered to the owner a paryoli containing the name of all workmen, laborers, lumber merchants and material-men.

Export memory—Any number of hen-holders may be joined in one suit and all proceedings brought by a lien-holders hall be taken to be brought in behalf of all lien-holders who may be made been distributed among such workmen and material

### MINERAL ACT

1. SHORT TITLE. This act may be cited as the "Mineral Act. 1891."

1. Stout Title. This act may be cited as the "Mineral Act, 1891."
2. Interpretation.—In the construction of this act the following expressions shall have the following meanings respectively, unless inconsistent with the context;
"Mine" shall mean any land in which any vein or lode, or rock in place, shall be mined for gold or other minerals, precious or "Rock in place shall be mined for gold or other minerals, precious or "Rock in place bearing valuable deposits of gold, silver, cinnabar, lead, copper, Iron or other minerals usually mined, except coal.

"Ven" or "lode." Whenever either of these terms is used in this act, "rock in place" shall be deemed to be included.

"Mineral chaim" shall mean all rode every mineral chaim, ditch, millistic or water-right used for mining purposes, and all other things belonging to a mine or used in the working thereof.

"Legal post" shall mean a stake standing not less than four feet above the ground, and squared or faced on four sides for at least one fool from the top, and each side so squared or faced to the above height and size.

"Millistic" shall mean a plot of ground located, as defined by this act, for the purpose of creeting thereon any machinery or other works for transporting, crushing, reducing or sampling ores, or for the transmission of power for working mines.

"Streams" shall include a finne, pipe or race, or other artificial means for conducting water by its own weight, to be used for mining purposes.

means for conducting water by its own weight, to be used for mining purposes.
"Difeth head" shall mean the point in a natural water-course, or lake or other source where water is first taken into a ditch. "Free miner" shall mean a person or joint-stock company or foreign company named in and lawfully possessed of a valid ex-isting free miner's certificate, and no other. "Record," "register" and "registration" shall have the same meaning, and shall mean an entry in some official book kept for

we among and shall mean an entry in some official book kept for that purpose, "Full interest" shall mean any mineral claim of the full size, or one of several shares into which a mineral claim shall be equally divided.

divided.
"Cause" shall include any suit or action.
"Ludgment" shall include "order" or "decree."
"Mineral" shall include "order" as, precious or base (other than coal), found in veins, lodes or rock in place, and whether such ninerals are found separately or in combination with each other.
"Real estate" shall mean any mineral land held in fee simple miner this or any act relating to gold mines, or to minerals other miner this or any act relating to gold mines, or to minerals other

than coal. man coll.

In an coll.

The company shall mean any company duly incorposition mining purposes under the "Companies Act," companies Act, 1880, and any company duly incorporated in British Columbia for mining purposes under the "Companies Act, 1880," imperials, and shall include all companies falling under the definition of a foreign company in the "Companies Act,".

# FREE MINERS AND THEIR PRIVILEGES.

3. QUALIFICATION. Every person over eighteen years of age, and every joint-stock company, shall be entitled to all the rights and privileges of a free miner, and shall be considered a free miner, upon taking out a free miner's certificate. A free miner's certificate issued to a joint-stock company shall be issued in its corporate name. A free miner's certificate shall not be transferable.

corporate name. A free inner's certificate shair not be trans-ferable.

4. Du RATION OF CERTIFICATE.—A free miner's certificate may be granted for one or more years to run from the date thereof, or from the expiration of the applicant's then existing certificate, upon the payment therefor of the fees set out in the schedule of fees to this act. Only one person or one joint-stock company shall be named therein.

5. FORM OF.—A free mmer's certificate shall be in the following form:

BRITISH COLUMBIA. Free Miner's Certificate.

NOT TRANSFERABLE.

This is to certify that. This is to certify that. This is to certify that this sum of and is entitled to all the rights and privileges of a free miner for year from the day of Signature of Gold Commissioner or Mining Recorder, as the

[Signature of Gold Commissioner or Mining Recorder, as the case may be.]

6. APPLICATION AT RECORDER'S OFFICE IN HIS ABSENCE.—
If any person or joint-stock company shall apply for a free miner's certificate at the mining recorder's office during his absence, and shall leave the fee required by this act with the officer or other person in charge of the said office, he or it shall be entitled to have such certificate from the date of such application and any firm into commencing to run at the expiration of his then existing free miner's certificate, providing that when he applies for such certificate he shall produce to the mining recorder, or in case of his absence shall leave with the officer or other person in charge of the mining recorder's office, such existing certificate.

7. SCISTITUTED CERTIFICATE — 16 according to the existing control of the mining recorder's office, such existing certificate.

7. "SUBSTITUTED CERTIFICATE."—If any free miner's certifi-cate be accidentally destroyed or lost, the owner thereof may, on

payment of the fees set out in the schedule to this act, have a true copy of it, signed by the mining recorder, or other person by whom or out of whose office the original was issued. Every such copy shall be marked "substituted certificate;" and unless some material irregularity be shown in respect thereof, every original or substituted free miner's certificate shall be evidence of all matters therein contained.

matters therein contained.

8. PENALTY FOR MINING WITHOUT CERTIFICATE, "Every person and joint-stock company engaged in mining for nunerals (other than coal) shall take out a free miner's certificate, and whoever works a mine, tunnel, flume, drain or diftch, without having such certificate, shall, on conjetion thereof in a summary way, forfeit and pay a penalty not exceeding \$55, besides costs: provided, always, that nothing herein contained shall perfolice the right to collect wages shall perform for work done by any person who, the property of the person who, the person who can be contained to the person where the person which is the person where the person where the person who can be contained to the person where the pe the above penalty.

My New Property and Person Not Extrined to American My New Property. No person or joint-stock company shall be recognized as having any right or interest in or to any unineral claim, or any uninerals therein, or no ro only water-right, mining ditch, drain, timuel or flume, unless he or it shall have a free miner's certificate unexpired. And on the expiration of a free miner's certificate the owner thereof shall absolutely forfeit all is rights and interests in or to any unineral claim, and all and any unineral state, and in or to any and every water-right, unling ditch, drain, timuel or flume, which may be held or claimed by such owner of such expired free miner's certificate, puration of such certificate, obtain a new free unier's certificate provided, nevertheless, that a shareholder in a joint-stock conjugate personal control of a tree miner, and though not a free miner, and and provided, also, that this section shall not apply to miner claims for which a certificate of improvement or crown grant has been issued. 9. UNCERTIFICATED PERSON NOT ENTITLED TO INTERES

10. WHERE A FREE MINER MAY PROSPECT AND MINE. free miner shall have the right to enter, locate, prospect and infine upon any waste lands of the crown for all minerals other than coal, free miner shall have the right to enter, locate, prospect and mine any maste lands of the erown for all minerals other than coal, and upon all lands the right whereon to so enter upon, prospect and mine all minerals other than coal shall have been, or hereafter shall be, reserved to the crown and its becauses, and also toenter, shall be, reserved to the crown and its becauses, and also toenter, right whereon to so enter and mine shell gold and sliver shall have been, or shall be, reserved to the crown and its because, right whereon to so enter and mine shell gold and sliver shall have been, or shall be, reserved to the crown and its becauses. Even the compact of all the above description of lands any land occupied by any building, and any land falling within the curtilage of any dwelling-thouse, and any orehard, and any land for the time being actually under cultivation, and any land lawfully occupied being actually under cultivation, and any land lawfully occupied proposes, such entry being made upon lands already lawfully occupied for other than mining purposes, such free miner previously to such entry shall give adequate security to the satisfaction of the gold commissioner for may fiss or damages which may be caused by such entry; and provided, that after such entry be shall make full compensation, in case of dispute, to be determined by the court having jurisdiction in mining disputes, with or without a jury.

11. REGIT TO CUT TIMERS. Any free miner may enter upon any crown lands, or lands covered by tumber leaves, or any lands the timber whereon has been reserved by the crown, to eit timber to mining disputes.

the funder whereon has been reserved by the crown, to cat time the property of the following the fol

### MINERAL CLAIMS AND MINES

LOCATING, RECORDING, WORKING, AND CROWN GRANTS.

LOCATING, RECORDING, WORKING, AND GROWN GRANTS,

14. FREE MINKE'S CLAIM.—Any free miner destring to locate a mineral claim shall, subject to the provisions of this act with respect to land which may be used for mining, enter upon the same and locate a plot of ground, where possible, fifteen hundred resume and locate a plot of ground, where possible, fifteen hundred reaughfar forms, provided, however, that there possible, in recmineral claim, it shall be parallel. In defining the size of a mineral claim, it shall be measured horizontally, irrespective of megnatless on the surface of the ground.

15. How Staked OUT.—A mineral claim shall be marked by three logal posts placed, as near as possible, at equal distances there of the post shall always be ministent be much be recommended to the continued of the claim at the shall be fully and the content of the claim at the shall be run from 1 through 2 and be continued in the same straight line to the required distance, without reference, as to direction, to post 3, but, as to distance, such line shall not exceed the distance in a straight line between posts 1 and 3, and shall not exceed in a straight line between posts 1 and 3, and shall not exceed in other in writing, stating the name of the claim, its length in four, and the direction of the center-line, with the date of the notice and name of the claims and find forection of the center-line, with the date of the notice and mane of the claims and find received country, where any one post cannot be seen from the next post, the locator shall have been previously abundoned or forfeited.

46. LOCATION MADE ON SUNDAY. Any location made upon Sunday or any public holiday shaft not for that reason be invalid, any law or statute to the contrary notwithstanding.

17. WHERE STAKING OUT CANNOT BE PROPERIA DONE.—In cases where, from the nature or shape of the ground, it is impossible to mark the center-line of the claim, as provided by this act, then the claim may be marked by placing posts as nearly as possible to the center-line, and noting the distance and direction distance and direction in the property of the claim distance and direction shall be set out in the record of the claim.

18. PRIORITY OF LOCATION IN DISPUTES.—In case of any dispute as to the location of a inheral claim the tilt to the claim shall be recognized according to the priority of such location, subject to any question as to the validity of the record disect, and subject further to the free miner having compiled with all the 18. Records of Claim. Every free miner locating a mineral claim shall record the same with the mining recorder of the district within which the same is situate, within different days affect the location thereof, it located within ten miles of the office of such record for every additional ten miles, or fraction thereof, and the district of the first precorder of the control of the

20. WHEN A FIRE MINER IS ENTITLED TO RECORD. A freeminer shall not be entitled to a record of a mineral claim until he
shall have furnished the said mining recorder with all the above
particular.

of a mining division and the opening of a mining recorder, office
therein, under the authority of this act, such office and none other
shall be the proper office for recording all mineral claims within
such mining division and making all records in respect thereof.

22. RECORDING CLAYM IN WIONG, DISTRICT. If through igmorance any free miner shall record a mineral claim in a different
district or mining division to that in which such claim is stitute,
within fifteen days from the discovery of his creen, evend shall
elial in the district or mining division in which it is situate, and
claim in the district or mining division in which it is situate, and
claim in the district or mining division in which it is situate, and
claim in the observed of the error and of the date of the
rectification of the same.

23. APPLICATION AT RECORDER'S OFFICE FOR HIS ADSENCE.

14. A Free miner applies at the mining recorder's office during his
rectification of the same
and the mining recorder to make such record, with the
officer or mining recorder to make such record, with the
officer of mining recorder to make such record division of the promatter required by this act to be recorded, and leaves the fee prequired by this act, and the particulars and information required
to that such as a such as a such application.

24. Di RAYMON of CLAMA AND ITTES OF CLAMA-HOLDER,
ADDITION of the particulars and information required
to the present of the same, and thence from year to year, provided, however, that during each year and each succeeding year
such free miner of his sagent, setting out a detailed statement of
the recording of the same, and thence from year to year, provided, however, that during each year and each succeeding year
such free miner or his agent, setting out a detailed statement of
the recording of the same, and thence

cease.

28. MACHINERA ON AGANDONED CLAIM. When a free miner abandons a mineral claim he shall have the right to take from the same any machinery and any personal property which he may have placed on the claim, and any ore which he may have extracted therefrom within such time as shall be fixed by the gold commissioner or mining recorder.

29. RE-LOCATION OF ABANDONED CLAIMS.—No free miner shall be entitled to re-locate any mineral claim, or any portion thereof, which he shall lave abandoned or forlied, unless he shall have obtained the written permission of the gold commissioner to make such re-location; and he shall hold no interest in any portion of such mineral claim, by location, without such per mission.

IMSSON. WITES MORETHAN ONECLAMMON THE SAME LODG. Should any tree induce beate and record more than one mineral claim on the same vein or lode, all such locations and records, excepting the location and record of his first claim on such vein or lode, shall be void, unless such first claim shall have been abandoned or forfeited.

united of foreign.

31. AMOUNT OF LODE CONTAINED IN A CLAIM. The lawful holder of a mineral claim shall have the exclusive right and possession of all the surface included within the lines of his location,

and of all veins or lodes, throughout their entire depth, the top or apex of which lies inside of such surface-lines extended downward out and the properties of the surface-lines extended downward as perpendicular in their course downward as to extend outside the vertical side-lines of such surface-location; but his right of possession to such outside parts of such veins or lodes shall be confined to such portions thereof such veins or lodes shall be confined to such portions thereof such through the end-lines of his location so continued in their own direction that such planes will interest such exterior parts of such vensor lodes; and nothing in this section shall authorize the locator or possessor of a vein or lode which extends in its downward course beyond the vertical lines of his claim to enter upon the surface of a claim owned or possessed by another; provided, always, that a prior location may be upon the apex of the vein or lode; and provided, always, that in cases where the lend in which such claim is situate to action may be upon the apex of the vein or lode; and provided, always, that in cases where the lend in which such claim is situate is lawfully owned or occupied for other than mining purposes, the above section shall be read subject to the rights and interests of such owner or occupier. And it is hereby expressly declared that a location hald crosswise of a vein or lode, so that its center line crosses the same claim of of following the transity errors at the surface, and the side-lines of the location will become the endines thereof, for the purpose of delining the rights of the owners. A location shall be deemed to have been laid crosswise when the sundlest angle made by the center-line falling on the general course of the vein or lode is greater than forty-five degrees.

32. Where Lones I NTERISECT PRIORITY of THE STALLS. The little of the own more disposition; and provided, also, that where two or more veins or lodes mine, on their downward dip, priority of title shall govern, and the pri

or lode.

34. INTEREST IN CLAIM A CHATTELINTEREST. The interest of a free miner in his mineral claim shall, save as to claims held as real estate, be deemed to be a chattle interest, equivalent to a lease, for one year, and thence from year to year subject to the performance and observance of all the terms and conditions of this act.

performance and observance of all the terms and conditions of this act.

35. PURCHASE OF MINERAL CLAIM.—Any lawful holder of a mineral claim shall be entitled to a crowin grant thereof on payment to the government of British Columbia of the sum of \$25 per acre in lieu of expenditure on the claim. The intending purchaser shall cause a notice of his intention to purchase to his intention to purchase the inserted in the British Columbia Grazette, and his one newspaper circulating in the district in which the claim is situate, for sixty \$3. Charthelay and the claim is situate, for sixty \$3. Charthelay and the properties of the property of the properties of the claim itself in developing a mine to the value of \$500 exclusive of all houses, (b). Found a velor of both within the properties of the claim, and placed one such plat on the X2 or center-post of the claim, and placed one such plat on the X2 or center-post of the claim, and placed one such plat on the X2 or center-post of the claim, or of pay be a propertied as a post as near thereto as possible, and who shall have accurately defined the boundaries of such claim by placing monuments or legal posts at the angles or corners of such claim, and who shall have accurately defined the boundaries of such claim by placing monuments or legal posts at the angles or corners of such claim, and who shall have accurately defined the boundaries of such claim by placing monuments or such work, exclusive of houses, buildings and of such work, and that a vein or lode has been found to exist on the claim.

(d.) Shall have posted on the same post as the said nat, and

on the claim.

(d.) Shall have posted on the same post as the said puat, and also on the outside of the office of the mining recorder, a legible notice in writing of his intention to apply for a certificate of improvements, and such notice shall contain: 1. The name of the claim; 2. The name of the lawful holder thereof; 3. The number of such holder's existing free miner's certificate; 4. His intention apply for certificate of improvements at the end of sixty days, for the purpose of obtaining a crown grant; 5. The date of the

notice.

(c.) Inserted a copy of such notice in the British Columbia Gazette, and in one newspaper circulating in the district in which the claim is situate, for at least sixty days prior to such application, which insertions can be made at any time after the posting of the notice on the claim;

(f.) Filed with the mining recorder;

1. Affidavit of the bolder of the claim, or his agent, in Form II in the schedule of this act;

2. Affidavit of the said surveyor in Form G in schedule of this act;

3. Two copies of the plat of such claim;

4. The surveyor's original field-notes.

37. CERTIFICATE NOT GRANTED WHEN CLAIM IS IN LITIGATION.—Provided, nevertheless, that no certificate of improvements shall be granted in respect of a mineral claim the title to which is in litigation, and a certificate of improvements granted in respect of any such claim shall be null and void.

38. EFFET OF CERTIFICATE or IMPROVEMENTS.—After the issuing and recording of such certificate of improvements, and certificate abandoned to forfeitled on account of the holder thereof deemed abandoned to forfeitled on account of the holder thereof failing to take out a free miner's certificate, and it shall not be necessary to do any work thereon.

39. RECORD OF CERTIFICATE OF IMPROVEMENT ENTITLES OWNER TO CHOWN GRANT—On the granting and recording istuate onisited or the railway belt, the holder thereof shall be collided to a crown grant of such calm without the payment of recording of such certificate of improvements in respect of a mineral claim situate inside the railway belt, the holder thereof shall be an entitled to a crown grant of such carming the such as the provements of such carming recorder.

40. APPLICATION FOR GROWN GRANT.—The holder of a mineral claim for which a certificate of improvements has been granted and recorded shall make application for a crown grant to the mining recorder. In form of the extended to this act, within and recorded shall make application for a crown grant to the mining recorder in form of the extended to this act, within such time, such certificate of improvements has been granted and recorded shall make application for a crown grant to the mining recorder. In form of the extended to this act, within such time, such certificate of improvements has been granted also the provements of the continuous control of the extended to this act, within such time, such certificate of improvements has been granted to the such application law and grant and become absolutely yoid.

41. TRANSFER OF CLAIM AFTER APPLICATION FOR CERTIFIT.

alsolutely void.

4. Then sheffer of Claim Appelle and perfect the holder of a mineral claim, after applying for a certificate of improvements, shall sel and transfer such claim to another free miner, mon satisfactory proof of such sale and transfer being made to the gold commissioner the new holder of the claim shall be entitled to a certificate of improvements in his own name. And if a sale and transfer shall be made to any person or company after a certificate of improvements shall have been issued, upon proper proof of such sale and transfer been issued as the companies of the companies of

such crown grant.

such errown grant.

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erown shall be deemed to transfer and pass the right to all minerals, precious or base (excepting coal), found in veins, lodes or rock in place, and whether such initerals are found separately or in combination with each other, in, upon or under the land in the state of core present the control of the con

it shall be competent for such judge, by order, to extend the time for the filing of such particulars and plat, upon cause being shown. And any order for particulars or for extension of time made under this section may be made exparte.

48. ADVERSE CLAIM AFFECTION.

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by a provincial land sure you, and Signed 10 the office of the mining recorder.

The program of the transfer of the transfer of the mining recorder.

The provincian of the transfer of the relating to any mincrat claim, mine held as real estate, or mining interest, shall be
recorded within the time prescribed for recording mineral claims;
provided, always, that the failure to so record any such documents
hall not invalidate the same as between the parties thereto, but
such documents as to third parties shall take effect from the date
of record, and not from the date of such document, cransfer of any
mineral claim, or of any interest thereto, but such documents as to third parties shall take effect from the date
of such documents as to third parties shall take effect from the date
of record, and not from the date of such document, cransfer of any
mineral claim, or of any interest therein, the transferrer or by his
agent claims shall be in extra the such that the such as the same shall be
recorded before the record of such transfer.

2. TRANSFER OF IEAM, ESTYPE UNDER "GOLD MINING
AMENDMENT ACT, INTA," or mider this or any act relating to minerals other than coal,
shall be in writing, since by the transferr of any real estate acquired under the provisions of the "Gold Mining Amendment Act,
total," or under this or any act relating to minerals other than coal,
shall be in writing, since by the transferr of the sagent authorized in writing, and must be by deed and recorded by the mining
recorder.

ized in writing, and must no your and recovered recognition of Fig. M.N.ER. In case of the death of any free major, his unineral claim shall not be open to location by any other person, either during his last illness or for the period of twelve months after his decease.

5. FALLES OF GOVERNMENT OFFICIALS.—No free uniner shall suffer from any acts of omission, or commission, or delays on the part of any government official, it such can be proven.

## MILL-SITES.

ATLLESTICS.

55. Low vitos Op. A free finier may locate any unoccupied and unreserved crown land not known to contain indiceral, and not evenling five acres, as a millestic. No free miner shall hold at any one time more than one millestic obtained by him under this section. Such millestic shall be as nearly as possible in the form of a square. On locating a millestic, the free miner shall comply with the following requirement:

(4). Mark out the land by placing a legal post at each corner, the following a millestic post, stating: 1. The name of such control of the first post, stating: 1. The name of such control of the first post, stating: 1. The name of such control of the first post, stating: 1. The name of such control of the first post, stating: 1. The name of such control of the first post of the first post of the such control of the mining recorder.

(2) Post a copy of such notice on the office of the mining recorder.

tier, to apply for the land as a milistic; 4. The date of the notice, (c.) Post a copy of such notice on the office of the mining recorder.

56. RECORDER MAY GRANT LEASE FOR ONE VEAR.—On the expiration of skty days after the fulfillment of the above requirements, the free miner shall deposit, in doublewer, and that the said and with the mining recorder, and that the said land is not known to contain minerals, and shall furnish such their position of the mining recorder, and that the said land is not known to contain minerals, and shall furnish such other proof of the non-mineral character of the land as the gold commissioner may require; the free miner shall then be entitled to a lease, for one year, of the said land, which lease shall be executed by the gold commissioner. If, during the continuance of such lease, such free miner shall prove to the satisfaction of the gold commissioner that he has put or constructed more than the has put or constructed miners of the said land is said be entitled to a crown grant of such milistic upon payment of S. per arer for sach land. Any free miner of at least Sco. ment of such milistic and the said milistic of the value of at least Sco. Any free miner now having a lease of a piece of land for a milistic, upon proving to the satisfaction of the value of at least Sco, shall, on payment of Sc per acre to at least Sco, shall, on payment of Sc per acre, be entitled to a crown grant of such milistic.

1. Pay the sum of Sc per acre to the mining recorder.

2. Deposit with the mining recorder the following documents. (a) lease of the milistic, (b.) Plat of the milistic (c.) Surveyor's regular fleid-notes; (d.) A certificate from the gold commissioner that works or machinery for mining or milling purposes have been plut or constructed milistic of the milistic of

# TUNNELS AND DRAINS.

59, LICENSE TO RUN.—Any free miner, being the holder of a mineral claim or mine held as real estate, may, at the discretion

of the gold commissioner, obtain a license to run a drain or tunnel, of the gold commissioner, obtain a heense to run a drain or tunnel, for drainage or any other purpose connected with the development or working of such claim or mine, through any occupied or mocembed lands, whether mineral or otherwise, upon security being first deposited or suggest that may be done thereby, and upon such other terms as he shall think expedient.

60. Grant of Water-Richtents—A free miner who is the holder of a mineral claim or nume held as real estate, or of any millesite, may, at the discretion of the gold commissioner, obtain a grant to a water-right it and unappropriated water, for any furning our milling purpose, for any term undersconding the control of the property of the control of the property of the

fit.

61. WHAT MUST BEDONE BEFORE APPLAING FOR ATGANT.—
Before applying for any such grant, the free numer shall:

(1) Post a notice in writing on a legal post upon some conspicuous part of the ground on which such water is intended to be used and a copy of such notice on the office of the following particular than the following parti

12.4 If more than three innured menes are applied for, a deposit shall be made with the gold commissioner of \$2.5, to be refunded if the grant is not made.

2. Record or Grayy. The grant of such water-right shall
be recorded in the office of the untiling recorder within the time
infled for the recording of inheral chiefs recorder within the time
infled for the recording of inheral chiefserfelo.

23. No grant shall take effect until recorded.

43. No grant shall take effect until recorded.

44. PRIORITY OF NOTEL. On any dispute prior to such grant,
15. DATE or GRAYY. A grant dhip recorded shall speak from
the date of the grant, and not from the date of the record.

45. RIGHTS of WAYEN WORKING ON THE STIERMY—Every
such grant shall be subject to the rights of such free universes.

53. Shall, at the date of such and of any other persons has fully using
such water for any purpose whatsoever; and such grant shall be
deemed as appurtenant to the numera claim, nine held as real
estate, or mill-site or respect of which it has been obtained, and
whenever the claim or nume shall have been worked out or abandored, or whenever the occasion for the use of the water upon
breath which has a grant of water for the purpose of selling such water to
or of using the same otherwise than for the purpose for which the
water was recorded.

48. COMMENCEMENT OF CONSTILCTION OF WORKS.—Within
sty months after the grant is made, the granter shall commence
the construction of the date or other works through which the
water was recorded.

49. CONMENCEMENT OF CONSTILCTION OF WORKS.—Within
the ment of water grant is made, the granter shall commence
the construction of the date or other works through which the
water was recorded.

49. CONMENCEMENT OF CONSTILCTION OF WORKS.—Within
the confirm in the shall prosecute the same dilgrant of water for the purpose of selling such water, or
of using the same otherwise than for the purpose for which the
water was recorded.

49. CONMENCEMENT OF CONSTILCTION OF WORKS.—Within
the sum of the condition

news and complying with such terms as the gold commissioner may require.

70. Willeft, Waste of Wafer, Every such grantee shall take all reasonable means for utilizing the water granted to him; and if he willfully waste any water, or take a quantity of water in grant to be forfeited.

71. Power to Buttog Stream, Erc.—Any person desiring to bridge any stream, claim or other place, for any purpose, or to mine under or through any dich or finne, or to earry water through or over any land already occupied, may do so with the written sanction of the gold commissioner. In all do so with the right of the party first in possession, where it is to entire him to compensation of the gold commissioner. In the mine or of the compensation of the party first in possession, where it is the mine or of the compensation of the same be just.

72. By Les For Meastreement of Water, In measuring water in any dich or siniec, the following rules shall be observed: The water taken into a duch or shile shall be measured at the dich or shile head. No water shall be taken into addich or shile everyt in atrongh placed horizontally at the place at which that will pass through an orrice two lineles show the upper side of the orifice.

73. Notice To Be Given of Approaching Any Ditcu.

of the orline.

73. Norther To BE GIVEN ON APPROVEHING ANY DITCH. Whenever it shall be intended, in forming or upholding any ditch, to enter upon and occupy any part of a registered claim, or mine held as real estate, or to dig or loosen any earth or rock within four feet of any ditch not belonging solely to the registered owner of such claim or mine, three days' notice in writing of such instend on the property.

The property of the property

75. OWNER TO PROVIDE FOR WASTE WATER.—The owner of any ditch, flume or pipe shall, at his own expense, construct, secure and maintain all enliverts necessary for the passage of waste and superfluors water through through or over any such ditch, flume or pipe. The through the transparence of the ditch, flume or pipe shall construct and secure the same in a proper and substantial manner, and maintain the same in good repair to the satisfaction of the gold commissioner, so that no damage shall occur to any road or work in its telinity, from any part of the works of such ditch, flume or pipe shall be liable and shall make good, in sech namer than or pipe shall be liable and shall make good, in such manner than of the works of such ditch, flume or pipe shall be liable and shall make good, in such make the may be occasioned by or through any parts of the works of such ditch, flume or pipe breaking or being imperfect.

75. WHAT CONSTITUTES SUFFICIENT NOTICE.—If any written notice to the party intended to be affected thereby be posted for ten days on some conspicuous part of any premises referred to in such notice, and also in the office of the mining recorder, such manner of the party intended to be affected thereby be posted for ten days on some conspicuous part of any premises referred to make the party of the party intended to be affected thereby be posted for ten days on some conspicuous part of any premises referred to make notice, and also in the office of the mining recorder, such manner of the party intended to be affected the premises of the mining recorder, such manner of the party intended to be affected the premise of the mining recorder, such manner of the party intended to be affected the party intended

tinnes to exist.

80. CHIFF COMMISSIONER MAY LAY LAY OUT ROADS, ETC.
NOthing herein contained shall be construed to limit the right
of the chief commissioner of lands and works to lay out, from
time to time, the public roads of the province, across, through,
along or under any ditell, water-right or mining right in any
crown land, without compensation, provided that as little damage
as possible shall be done in so doing.

### MINING PARTNERSHIP.

MINING PARTNERSHIP.

St. APPLICATION.—All mining partnerships shall be governed by the provisions hereof, unless they shall have other and written the provisions hereof, unless they shall have other and written from the partnership shall, unless otherwise agreed upon, be deemed to be a yearly partnership renewable from year to year by facit consent.

S. Scorie Or.—The business of the partnership shall be mining and such other matters as pertain solely thereto.

St. Record Or.—Mine business of the partnership hand be mining partnership can locate and record in the partnership name a mineral claim for each partner, but the name of every partners free miner's certificate shall not be properly of the partnership; but the claims so taken in shall be the property of the partnership; provided, always, that no free miner who is the member of a mining partnership, holding by right of location a mineral claim, shall be entitled to hold by right of location in his own name or in the name of any other partnership any interest in any other mineral claim on the same vain or location of which the partnership claim is stituate.

mineral claim on the same vein or lode on which the partnership claim is studie.

55. FAILURE TO KEEPTP CERTIFICATE—Should any partner fail to keep up his free miner's certificate, such failure shall not cause a forfeiture, or act as an abandonment of the partnership claim, but the share of the partner who shall so fail to keep up his free miner's certificate shall become vested in his partners, so, PARTNER'S RIGHTTO VOTE—A partner may mining partnership of his agent authorized in writing shall, at any needing interest, which he may hold therein; but the result of the votes given shall be determined by the number of the full interest value he had not by the number of the full interest value had not by the number of partners voting at such meeting. meetin

S. MAORITY TO MAKE ASSESSMENTS.—A majority of such votes may decide when, how long and in what manner to work the partnership claim, the number of men to be employed, and the extent and manner of levying the assessments to defray the expenses incurred by the partnership. Such majority may also choose a foreman or manager, who shall represent the partnership for ship, and she and be such in the name of the partnership for them by his contracts. Every partner, or his duly authorized agent, shall be entitled to represent his interest in the partnership property by work and labor so long as such work and labor having jurishletion in minured disputes may, if requested, summon working the shall defend to the contract of the contra

assessments shall be payable within thirty days after being made.

89. DEFALLT IN PAYMENT OF ASSESSMENT,—Any partner making default in payment, after receiving a notice specifying the amount due by him, shall, it such amount be correct, be personally liable therefor to the partnership, and his interest in the partnership property may be sold by the partnership from the interest in the partnership property may be sold by the partnership for the payment of the debt, and any further assessment that may have accrued thereon up to the day of the sale, together with all costs the sale his insufficient to pay off the several sums mentioned, the court having jurisdiction in mining disputes, upon being applied to, shall issue an order directed to the sherifit to seize and sell any other personal property of the debtor. Notices of sale shall, in either of the above cases, be conspicitionally posted thirty clear days prior to the day of sale, in the vicinity of such mining or

other property, and on the conrt-house or mining recorder's office mearest thereto. But if such partner be absent from the district such notices shall be posted as aforesaid sixty clear days before the day of sale, and a copy of such notice shall be published in some newspaper circulating in the district wherein such mining or other property is situate. Such sale shall be by public anethor the property is situate. Such sale shall be intitled to possest the property is situate. Such sale shall be entitled to possest the property of the property is situate. Such sale shall be entitled to possest the sale of the property is situate. Such sale shall be entitled to possest the sale of the property is situated by the property of the partnership in the property of the property of a partnership is made, and the property of the partnership incurred after service and record of such modes, and no member shall not be liable for any debts or other liabilities of the partnership incurred after service and record of such modes, and no member shall not be liable for any debts or other liabilities of the partnership incurred after service and record of such modes, and no member shall be demended to have abandoned and indice, and no member shall be demended to have abandoned partnership, the tifle to the abandonned of any share in a mining partnership, the tifle to the abandonned share shall vest in the continuing partners for the partnership incurred to the sale of his interest in the continuing partnership recorded to the sale of his interest in the continuing partnership and the partnership in the partnership in the partnership in the partnership incurred the sale of his interest has been recorded be liable for any indebtedness of the partnership incurred thereafter.

Limited of the partnership incurred the partnership incurred thereafter.

### LIMITED LIABILITY.

94. LIMITED LIABILITY.—Any mining partnership composed of two or more free miners may finit the liability of its members, upon complying with the requirements following, that is to say: Upon filing with the mining recorder a declaratory statement, containing the mame of the partnership, the location and size of every partnership claim, and the particular interest of each partner; and also placing upon a conspicuous part of every such claim, in large letters, the name of the partnership, followed by the words "Limited Liability."

the words "Limited Liability."

35. ADDITION TO COMENN'S NAME.—The words "Limited Liability" shall thereupon become part of the partnership name, 96. EFFERT OF.—After such conditions shall have been complied with, no member of such partnership shall be liable for any indebtedness incurred thereafter, beyond an amount proportioned to his interest in the partnership.

57. Accord NYS TO BK KEPT.—EVETY Such partnership shall keep a correct account of its assets and liabilities, together with the names of the partners, and the interest held by each, and shall make out a monthly balance sheet showing the names of the rerolltors, and the amounts due to each, and file the same among the papers of the partnership; and such balance sheet and all the books of the partnership; and such balance sheet and all the books of the partnership shall be open to the inspection of creditors at all reasonable hours.

58. PARTSER MAY SELL.—Every partners in such partnership.

ors at all reasonable hours.

98. PARTER MAY SEIL.—Every partner in such partnership shall be at liberty to sell or dispose of his interest therein, or of any part thereof, to sell or dispose of his interest therein, or of any part thereof, to any other free miner.

80. Appendix of the partnership, after a bill of sale conveying his interest has been duly recorded, or after he has served a notice of abandonment of his interest on the foreman, and left a copy thereof with the unining recorder, shall be liable for any indebtedness of the partnership heurired thereafter.

10. DIVIDENDS—No such partnership shall declare any dividend until all its liabilities have been paid.

101. APPOINTMENT OF FOREMAN—Every such partnership, shall appoint a foreman or manager, who shall represent the partnership, who shall sne and be sued in the name of the partnership, and his contracts in relation to the business of the partnership shall be deemed to be the contracts of the partnership, shall be deemed to be the contracts of the partnership.

hip.

102. To What Partnership is Liable.—No such partnership shall be liable for any other indebtedness than that contracted by its foreman or manager, or by its agent duly authorized in writing

163. FAILURE TO COMPLY WITH PROVISIONS.—Should any such partnership fail to comply with any of the provisions of this act relating exclusively to "limited lability" partnership, such partnership shall, from the date of such failure, cease to be a "limited lability" partnership.

## MINING RECORDERS.

MINING RECORDERS.

104. APPOLYMENT OF. The lieutenant-governor in council nay appoint any person to be a mining recorder in and for any part of the province.

105. ELECTION OF BY MINERS.—Where mineral land is discovered in a part of the province so situate that the provisions of this act as to free miners' certificates and records of mining property cannot be mixity applied or enforced by reason of there is shall be lawful for the miners of such locality to hold meetings at such times and places as may be agreed upon, and at such meetings, by a two-thirds vote, to appoint one of their number to Issue free miners' certificates and to enter records of mining property; and such certificates and to enter records of mining property; and such certificates and records shall be valid, not withstanding any informality therein; provided that all records so to this act, and a list of all free miners' certificates issued, and to the date and term thereof, and the fees for the same, be forwarded to the nearest gold commissioner or mining recorder as soon thereafter as practicable. thereafter as practicable.

106. To ISSUE CERTIFICATES. Every mining recorder shall issue free miners' certificates and "substituted certificates" to all persons and companies entitled thereto.
107. Book or Forms.—Such free miners' certificates shall be taken from a printed book of forms, with duplicate counterfoils, one of which counterfoils shall be field in the office of the mining

167. Book of Forkas.—Sueji free immer's certificates snar is taken from a printed book of forms, with duplicate counterfolls, one of which counterfolls shall be filed in the office of the mining fork floors. To Be Kept.—Rever.—Every mining recorder shall keep the following books: (a). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Abandonments;" (c). A book to be known as the "Record of Conveyances.

169. Record of Claim.—Upon the application of on behalf the behalf of the mining recorder shall record any mineral record book, which entry shall be, as near as convenient, in the Form B in the schedule to this act, and he shall give a copy of such entry to the free miner or has agent. The mining recorder shall not make any such entry until be has received all the particulars required by section 9, and any entry made in violation of this section shall be absolutely void; and any company of free miners who locate and record adopining mineral claims to howefted by them in company, as mining partnership, provided in work to locate and record adopining mineral claims to how of the particulars of such claims.

10. Issay of the particulars of such claims.

10. Issay of the particulars of such claims and the work done for each claim held by such company, the mining recorder shall lissue a certificate for work for cach of such claims.

10. Issay of the tribute of the such abdavit and record the same in the record of allidavits, and also record such certificate of work, the mining recorder shall issue a certificate of work in the

same in the record of allidavits, and also record such certificate of work in the record how.

12. RECORD OF CERTIFICATION IN THE OF THE ALL OF A POOL OF THE OF TH

beingilt to him in connection with his office, in the record of adhiabits.

16. Of CONYEN ANDER, ETC. The mining recorder shall record adhiabits.

16. Of CONYEN ANDER, ETC. The mining recorder shall record by copying out verbatin, in the record of conveyances, and other documents of title, including powers of alteries or other authorities to execute all or any of the above description of documents when brought to him for that purpose.

117. Of Doc ANNERS. The mining recorder shall record in the state of the property of the above description of documents which may be brought to him for record, and shall free all such documents which may be brought to him to be filled.

118. DATE OF ENTIAL, EVEY entry made in any of the above books shall show the date on which such entry was made.

119. ROW TO BE OFEN FOL INSPECTION.—All books of record and documents filed shall, during office hours, be open to public inspection free of charge.

129. OFFICE/OFIES To BE EXTENCENT.—EVEY copy of or extract from any curty in any of the said books, or of any document filed from any curty in any of the said books, or of any document filed from any curty in any of the said books, or of any document filed shall, during office hours, be open to public inspection for the file X-BAPLIC VION FOR CHONN GRANT. Propressed to the matters therein contained.

121. DUTY ON RECEIVING APPLICATION FOR CHONN GRANT. Propressed from the holder of a certificate of improvements of an application for a crown grant, in the proper form, and all moneys payable in respect of the chim for which a crown grant is applied, the mining recorder shall send such moneys, is gother with the mader-mentioned papers, to the gold counties should be and the such and such moneys, is capable in respect of the chim for which a crown grant is applied, the mining recorder shall send such moneys, is gother of the part of the mineral chain.

122. DUTY ON RECEIVING APPLICATION ALLESTIES—Upon receipt from the level of the part of the par

Crown grant.

122. DUTHES WITH REFERENCE TO MILL-STIFES.—Upon receipt from the lessee of a mill-site of all the moneys and documents mentioned In Section 57, the mining recorder shall send the same to the gold commissioner.

123. Reference To Collect Fees. Before issuing any free miner's certificate, or substituted certificate, or extilicate, or extilicate, or extilicate, or leave the second of thing any document, or making any copy or extract therefrom, the mining document, or making any copy or extract therefrom, the mining 123. Certific type of Works Doors. On being satisfied that at least \$250 worth of work has been done in any year on any mine held as real extate, by an affidavit setting out fully the particulars of the work done, the mining recorder shall issue to the

owner of such mine a certificate of work, showing that such work has been done. The year in this section shall be deemed to commence on the 1st of January of each year.

25. MINING DIVISIONS.—It shall be hawful for the licutemant-governor in council to divide and subdivide any district into mining divisions, and to establish in each mining division a mining division, and to stabilish in each mining division and interpretation of the licutemant of the council of the licutemant of a mining division, and the opening of a mining recorder's office.

Is a stablishment of a mining division, and the opening of a mining recorder's office therein, under the authority of the last preceding section: (a.) Such office, and none other, shall be the proper office for recording all claims, records, certificates, dominents, or other instruments affecting claims, mines held as real estate, or mining property situate within such mining division, and whenever, by this sact, or any act amending the same, any sioner or mining recorder of the district, it shall if the same affects or concerns any claim, mine held as real estate, or mining property situate within a mining division wherein such claim or mine, or other mining property, is situate, (b.) Upon the district or division of any mining recorder heing divided or subdivised into mining division, if shall be the day of such mining the continuous shall be administed to the continuous shall be administed to the continuous of the records of such office, and all transcripts of such mining division, and such transcript and the continuous division in whose office they are kept, shall be administed in circuments of which they purport to be transcripts; and such transcripts of copies thereof, when certificates, documents or other instruments of which they purport to be transcripts; and such transcripts of each state. The control of the such of the records of the records of the such

27. GOLD COMMISSIONER HAS ALL POWERS OF MINING RECORDER, When there shall be no mining recorder for a dis-trict or division, the duttes of the mining recorder shall devolve upon the gold commissioner, and it shall at all times be lawful for the gold commissioner to perform the duties of the mining re-corder, and the gold commissioner shall have all the powers of a mining recorder. The mining recorder of the mining re-

mining recording theories. The mining recorder's office shall be open upon such days and hours as the heutenant-governor in council may from time to time appoint, and failing any particular appointment shall be kept open upon all days exceeping public holidays, from 10 A. M. to 4 P. M., and such times shall be deemed the office hours of such office.

# GOLD COMMISSIONER'S MINISTERIAL POWERS.

# TUNNELS AND DRAINS.

129, LICENSE FOR. It shall be lawful for, but not incumbent 129. LICENSE FOR. It Shall be lawful for, but not incumbent upon, the gold commissioner to grant a license to any free immer, being the lawful holder of a uniheral claim or mine held as real the exception of the properties of the control of the properties of the chain or mine through any occupied or unoccupied lands, whether unineral or otherwise, upon security heing deposited or given to him to his satisfaction for any damage that may be done thereby, and upon such other terms as he shall think it.

130. Grant of Water-Right:—It shall be lawful for, but not incumbent upon, the gold commissioner to grant a water-right to any free miner who is the lawful holder of a mineral claim, mine held as real estate, or millisite, in any unappropriated water, for any mining or milling purpose, for any term not exceeding twenty years, and upon such terms and condition, as the gold commissioner shall think fit, no populated with, And mail excess where he shall think fit to valend the time for the recording of the grant of such water-right.

in, Beskey a. On the expiration of the grant to any such water-right, it shall be lawful for lot not incumbent upon the gold commissioner to renew such grant for a further period not exceeding ten years, on being satisfied that the necessity for the use of the water for the purpose for which it was originally granted continues to exist.

132. FORFETTI RE. Upon proof that any grantee has not com-plied with all or any of the conditions upon which grants of water-rights are held, the gold commissioner may declare the grant to

133. Ers onto Or.—When such grant shull have been declared forfeited, the gold commissioner shall cause such forfeiture to be recorded by the mining recorder in the record book.

134. CHANGE OF PLACE OF INVESTOR. The gold commissioner may permit the grantee of any water right to change the place of diversion, on being satisfied (that others are not injured).

by such change.

125. GRANAT TO RULLO BRIDGE. The gold commissioner may, in all proper cases, grant an authority in writing to any person desiring to bridge any stream, claim or other place, for any purpose, or to mine under or through any ditch or finine, or to carry water through or over any land altered voccupied, and to any person heretofore or hereafter engaged in the construction of any road or work, to cross, divert or otherwise interfere with any ditch, water priyilege or other mining rights whatsoever, for such person hereafter in the construction of the property of the construction of the property of the

such manner as such gold commissioner shall think fit, all damages which may be occasioned by or through any part of t works of such ditch, tlume or pipe breaking or being imperfect.

WORKING OF MINES OR CLAIMS, AND OTHER POWERS.

WORKING OF WINES OR CLAIMS, AND OTHER POWERS.

137. CERTIFICATE OF IMPROVEMENTS, The gold commissioner shall issue to the lawful holder of a mineral claim a certificate of improvements in respect of such claim, upon being satisfied that such holder has complied with all the requirements of Section 36 of this act, and that such claim is not in liftgation.

138. CLAIM WORK.—The gold commissioner shall have power to allow a free miner holding adjoining mineral claims to perform upon any one of such claims all the work required to entitle satisfied by an affidavit setting out fully the particulars of such work, he shall direct the mining recorder to issue a certificate of work for each such claim.

139. RELIGATION.—The gold commissioner may in his discretion permit a free miner to re-locate a mineral claim, or any part thereof, which may have been abandomed or forfeited by such therefore with the rights or interests of others.

140. SPACE FOR DEPOSITS.—The gold commissioner may mark and a space of ground for deposits of leavings and deads from any tunnel, claim or mining ground, upon such terms as he may think just.

any funnel, claim or mining grounds, grounds, grounds, grounds, grounds, grounds, grounds, growth that have the power to sunmainfly under any mining works to be so carried on prover to sunmainfly under any mining works to be so carried on the grounds, gro

to his satisfaction, at the cost of the parties who hisy have constructed the same, or, in their absence, upon such terms as he shall think fit.

142. CROWN GRANTS UNDER AMENDMENT ACT.—Notwithstanding anything contained in the "Gold Mining Amendment Act, 1875," or in any crown grant issued under the said act or Act, 1875," or in any crown grant issued under the said act or slover, in his discretion, and with or without any terms considered, in the same and the same actions, to allow to the owners of mineral caims all such rights or privileges in and over mineral or other claims held as real estate as may be allowed in and over claims not so held; and owners of claims not so held; and owners of claims not so held.

143. LEASE OF MILL-STE.—Upon receiving an application for a mill-site from any free miner, and upon proof being furnished to his satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the satisfaction of the non-mineral character of the land appendent of the land appendent of the satisfaction of the non-mineral character of the land appendent of the land

that effect.

145. Commissioner To Forward Documents, Etc. 145. COMMISSIONER TO FORWARD DOCUMENTS, ETC. "Upon receipt from the mining recorder of the moneys and documents mentioned or referred to in Section 12 no r122, the gold commis-sioner shall satisfy himself that the same are in order and then forward the same to the chief commissioner of lands and works. 146, Pow RTOCARR OUT ACT. The gold commissione shall have power to do all things necessary or expedient for the carry-ing out of the provisions of this act.

# ADMINISTRATION.

ABMINISTRATION.

147. TO TAKE SETTIFE BY INTESTIFE BY EASER MINERS.
The gold commissioner shall take possession of the mining property of any deceased free miner, and may cause such anding property of my deceased free miner, and may cause such anding property to be duly worked, or dispense therewith at his option.

148. TO ADMINISTRE ESTATE OF INTESTATE DECEASED MINER.—The gold commissioner, or any person authorized by him, shall take charge of all the property of any deceased free niner until the issue of letters of administration or produce of shall die intestate, and the value of the personal estate of such deceased free miner is less than \$300, it shall not be necessary of the case the gold commissioner may administration, but in such case the gold commissioner may administration, but in such case the gold commissioner may do all things necessary and proper fluereor, and act in all respects deceased tree miner had been granted to such gold commissioner, and the gold commissioner, and the gold commissioner, and the gold commissioner shall produce and pass his accounts, in each estate of which he shall undertake the administration, before a judge of the county court of the district.

# COUNTY COURTS.

149. JUNISDECTON.—In addition to the jurisdiction and powers given to county courts by the "County Courts Jurisdiction Act," and other nets, every county court shall have and experience, within the limits of its district, all the jurisdiction and powers of a court of law and equity.

1. In all personal actions, where the debt or damages claimed arise directly out of the business of mining tother than coal mining, or from the exercise of or interference with any right, power or privilege given or calmed to be given by this act or 2. In all actions between employeers and employees, where the employment is directly connected with the business of mining other than coal mining).

3. In all actions for supplies to persons engaged in mining, where such supplies were longht contracted for or supplied for men and the supplied supplied for the supplied for mining purposes, or for consumption by persons engaged in mining or prospecting.

4. In all actions of trespacs on or in respect of hands entered or other mining property, or upon or in respect of lands entered on, in searching for mining or working uninered, collection, in searching for mining or working uninered, collection, in searching for mining or working uninered, collection of the property of the collection mining)

In all suits for foreclosure or redemption, or for enforcing any charge or lien, where the mortgage, charge or lien shall be on mineral claims, mines or other mining property.

7. In all suits for specific performance of, or for reforming, or delivering up, or canceling any agreement for sale, purchase or lease of any mineral claim, mine or other mining property.

8. In all suits for the dissolution or winding up of any mining partnership, whether registered or not, under the provisions of

9. In all suits relative to water-rights claimed under this act or

any other act relative to water-rights calmed under this act of any other act relating to mining (other than coal mining). 10. In all proceedings for orders in the nature of injunctions, where the same are requisite tor the granting of relief in any matter in which jurisdiction is given to the county court by this

matter in which jurisdiction is given to the county court by this act.

150, MINING JURISDICTION.—The jurisdiction given to county courts by this act shall be known as the "mining jurisdiction" of the county court, and the words "mining jurisdiction" of the county court, and the words "mining jurisdiction" shall be written or printed on all summonses, writs and other process and all other decuments in every action or cause brought under the 151. Dowlft or Coulters and Opticials.—County courts and county court judges, registrars, sherifs and other officers shall have the same duties, powers, privileges and authorities in all actions and suits and other proceedings brought under the mining jurisdiction of the county court as they now have or at any time hereafter may have in actions and suits and other proceedings brought under the ordinary jurisdiction of the county court, and the same powers of county courts and county court, and duties and powers of county courts, and county court judges, registrars, sheriffs and other otheres, and regulating the practice and procedure in county courts, and all rules and orders for the time being applicable to the ordinary jurisdiction of the county court, shall, so far as practicable and not inconsistent with this action, and the interest of the mining jurisdiction of the county court.

261. Seathways the mining jurisdiction of the county court of the mining property, portions whereof are situated in adjoining of any summons, plaint or other process in any county court shall not be deferred beyond the shortest reasonable time necessary the registrar to make summonsses or other proceedings returnable for think to at any other time.

for liwith or at any other time.

134. MAY DECIDE ON THE CROUND—In all mining actions or sails the court may deedle the question at issue upon the ground in the property of the court of t

courf, and the costs so ordered shall be the costs recoverable in such action, suit or other proceeding.

157. JURISDICTION OVER LAND IN CERTAIN CASES.—Every younty court having jurisdiction in mining disputes shall, with reference to real estate held under the "Gold Mining Amendment Act, 1873," or under this act, and, notwithstanding any law to the contrary, have the same powers and authorities to de ide all natters or disputes arising between the owners thereof, or because of the contrary, have the same powers and authorities to de ide all natters or disputes arising between the owners thereof, or becausing the contrary, have the company of the contrary, have the same powers and authorities to de ide all natters or disputes the contrary that the contrary that the contrary the contrary of the contrary

# PENAL AND MISCELLANEOUS.

129. PENALTY FOR CONTRAVENTION OF ACT.—Any person willfully acting in contravention of this act or refusing to obey any tawful order of the gold commissioner or of any judge presiding in a court shall, on conviction thereof in a summary way before any two justices of the peace or a stipendiary magistrate or before any judge of a court having jurisdiction in mining disapates, be liable to a fine not exceeding \$250 or to imprisonment, with or without hard labor, for any term not exceeding three courts.

160. RECOVERY OF PENALTIES.—All fines and penalties imposed or payable under this act may be recovered by distress sale of any mining or other personal property of the oftender; and in default of sufficient distress by imprisument, with or without hard labor, not exceeding three months.

161. FINES, ETC. All fines, fees and penalties collected under this act shall be paid into the consolidated revenue fund of Brit-ish Columbia.

ish Columbia.

102. SAVING RIGHTS.—Nothing herein contained shall, save where such intention is expressly stated, be so construed as to afteet prejudicially any minure rights and interests nequired prior to the passing decrement of all minure rights and privileges are such as the contained against such as the property of the property stated, he deemed to be taken and held subject to the rights of ler Majesty, her heirs and successors, and to the public rights of way and water.

103. Corples of Act.—Every free miner, on application to the other successors, and to the public rights of the successors, and to the public rights of exert.—Every free miner, on application to the other successors are successors.

of this act.

164. BEFORE WHOM AFFIDAVITS MIST BE MADE. Affidavish and declarations made under the provisions of this act—shall be made before some judge or registrar of a court of record, before some gold commissioner, mining recorder, supermixing instruct, instead of the peace, notary public or commissioner for taking allidavits.

### REPEALING CLAUSE.

IEFTEADING CLAY SE.

IEFTEADING CLAY SECTION SHALL SECTION SHALL NOT be deemed to imply that any of the san are for parts of acts which have been repealed at a many of the san are for parts of acts which have been repealed at all the special provided, further, that section shall not affect any rights acquired, or any liabilities have been repealed by the sand acts or parts of acts: The "Mineral Act," save and except sections 4, 5, 6, 13, 19, 20, 22, 27, 28, and 22, "An act to amend the "Mineral Act, ISSO," paragraph (i.) In Schedule A of the "Licenses Act," Section 79 of the "Companies Act,"

# SCALE OF FEES TO BE CHARGED.

For every free miner's certificate *for each year).	85	DO
Por every free infiner's certificate store data year.		
Every substituted certificate		19/1
Recording any claim		50
Reporting every cortificate of work		50
Recording any "bay over," or every other record required to		
he made in the "Record Book".	- 2	50
Recording every abandonment, including the memorandum		
to be written on the record.		50
For any other record made in the "Record of Abandon-		
monts"	- 22	ätt
For recording every affidavit, where the same does not ex-		
1 there follows of any hundred wards	13	. 111

For recording every albitavit, where the same does not ex-ected three folios of one hundred words.

For every folio over three, 30 cents per folio.

The above rates shall be charged for all records made in the

"Record of Affidavits."
For all records made in the "Record of Conveyances," where
the same does not exceed three follos
For every folio over three, a further charge of 30 cents per

folio.

For all copies or extracts from any record in any of the abovemanued books, where such capy or extract shall not exceed three folios, per copy.

Where such copies or extracts exceed three folios, 30 cents
per folio for every folio over three.

For filing any document.

For a crown stant.

For a crown grant

5 10

# PLACER MINING ACT

1. SHORT TITLE. -This act may be cited as the "Placer Mining

1. SHORT TITLE. This act may be cited as the "Placer Mining Act, 180."

2. INTERPRETATION.—In the construction of this act the following expressions shall have the following expensives of the following expressions shall have the following meanings respectively, miless inconsistent with the context:

"Mine," "placer mine" and "diggings" shall be synonymous terms, and shall mean any natural stratum or bed of earth, "Haeer claim" shall mean the personal right of property or interest in any placer mine; and in the form "mining purperty" shall be included every placer claim, or intermediate the property of the placer mining purpers earth of placer mining purpers, and place the place in the property of the placer mining purpers, and hid diggings.

"Creek diggings," shall mean any mine in the bed of any river, stream or rawine, excepting bar diggings.

"Bar diggings" shall mean any mine over which a river extends when in its hooled state.

"Dry diggings" shall mean any mine over which a river never extends.

"Bench diggings" shall mean any mine on a bench, and shall, for the purpose of defining the size of a claim in bench diggings, be excepted from "dry diggings."
"Hit diggings" shall mean any mine on the surface of a hill, and fronting on any natural stream or ravine.
"Streams and ravines" shall include all natural water-courses, whether usually containing water or not, and all rivers, creeks and gulches.

"Ditch" shall include a flume, pipe, race or other artificial means for conducting water by its own weight, to be used for mining purposes.

purposes.

The head's shall mean the point in a natural water-course or investment water is first taken into a ditch.

"Free miner's shall mean a person or joint-stock company or foreign company named in and lawfully possessed of a valid exiting free miner's certificate and no other.

"Legal post" shall mean a stake standing not less than few feet above the ground, and squared or faced on four sides, for at least one foot from the top, and each lace so far as squared or faced shall meaner at least four neches. If a construction faced shall meaner at least four neches and squared or faced to face being in and size.

"Record," "register" and "registration" shall have the same menning and shall mean an entry in some official book kept for that purpose.

meaning and shall mean an entry in some official book kept for that purpose. "Record," when used without qualifying words showing that a different matter is referred to, shall be taken to refer to the record of a local state of a placer claim.

"Charles responsed to the placer claim of the full size, or most several shares into which a mine may be equally divided, "Charles respons" shall mean the perfood of the year during which placer claims in any district are hid over by the gold commissioner of that district.

"Charles shall include any suit or action." "Indigenent" shall include "order" or "decree." "Real estate" shall mean any placer mineral land held in fee simple.

some.

"Jointstock company" shall mean any company duly incorporated for indiang purposes under the "Companies Act," "Companies Act, 1892," and any company duly incorporated in tratish Columbia for inlinking purpose under the "Companies Act, 1892 importal), and shall include all companies failing under the definition of a foreign company in the "Companies and the The Jerices Stoth Indiansies are sections a to is of "Mineral

Act of 1891.

# SIZE AND NATURE OF PLACER CLAIMS.

15. FIRE MINER MAY RECORD AND PURCHASE. Every free miners hall be entitled to locate and record a placer claim on each separate recept, rature or hill, but not more than two claims the same locality only one of which shall be a creek claim. He shall be allowed to hold any number of placer claims by purchase, and every tree miner may sell, mortgage or dispose of his claim of any interest therein.

One SIZE OF PLACER CLAIMS. The SiZe of placer claims shall was follows:

and every free miner may sell, mortgage or dispose of his claim or any interest therein.

16. SIZE OF PLAFRULAIMS. The size of placer claims shall he as follows:

A" ereck claim" shall be one hundred feet long, measured in the direction of the general course of the stream, and shall extend in which follows are been as the control of the stream, and shall extend in which follows are benefits are less than one hundred feet apart her claim shall be one hundred feet square.

In "bar diggings," a claim shall be a strip of land one hundred feet apart her claim shall be one hundred feet apart water mark into the river of its fowest water bred.

In "dry diggings," a claim shall be a strip of land one hundred feet apart water mark into the river of its fowest water bred.

In "dry diggings," a claim shall be one hundred feet square.

In "dry diggings," a claim shall be one hundred feet square.

In "mid diggings," a claim shall have a base-line of the hundred feet square.

In "hill diggings," a claim shall have a base-line or frontage of one hundred feet, drawn parallel to the stream or axim on which is right angles thereto, and running to legal posts shall be placed, one hundred feet square.

In "hill diggings," a claim shall have a base-line water of the hill, shall constitute the side-lines thereof, but not to exceed one hundred feet square.

In "hill diggings," a claim shall have a base-line or frontage of the hundred feet, drawn parallel to the stream or axim on which it right angles thereto, and running to legal posts shall be placed, one hundred feet apart, on both the base-line and side-lines, and no claim shall extend beyond the posts so placed.

If, Size of CuArts of the miners, discover a new mae, and sussioner, placer claims of the following sizes, in dry, bar, bench, creek or brill diggings, shall be allowed, viz. To one discoverer, one claim, three hundred feet in length; to a party of two discoverers, to capital, and to each member of a party beyond four in number a claim, three hundred feet in length; to a

### LOCATING, RECORDING, RE-RECORDING, WORKING AND LAY-OVERS.

20. SHAPE OF CLAIM AND HOW MARKED.—Every placer claim shall be as nearly as possible rectangular in form, and marked and all shall be as nearly as possible rectangular in form, and marked the state of the state of

posts shall be placed along such side-line, at distances not exceeding one hundred feet.

21. Location Made on Sunday,—Any location made upon sunday or any public holiday shall not for that reason be myalid, any law or statute to the contrary notwithstanding.

32. Location Made on the contrary notwithstanding, and law or statute to the contrary notwithstanding, the contrary of the contrary notwithstanding, and the contrary notwithstanding, and the contrary of such location, subject to any question as to the validity of the record listeli, and subject further to the free miner having compiled with all the terms and conditions of this act.

23. Record or Ctalm.—Every free miner locating a placer claim shall record the same with the mining recorder of the district or division within which the same is situate, within theredays after the location thereof, if located within ten miles of the district or division within which the same is situate, within the redays after the location thereof, if located within ten miles of the redays after the location thereof, and located the location the reday and the propose in the office of the said mining recorder, to be known as the "Record Book," in which shall be inserted the name of teach locator's free miner's certificate, the locality of the claim, the along the first place of location, and date of the record; provided that a free the reday of the claim, the reduced of a claim, the length in feet, the period for which such record is granted, the date of location, and date of the record; provided that a free miner shall not be entitled to a record of a claim, until he shall the shall be placed to a proper of the placer claim, the shall be placed to a provider with a written statement of the above particulars.

the above particulars.

24. FORFETTER. After the recording of a placer claim, the fremoval of any post by the holder thereof, or by any person acting in his behalf, made for the purpose of changing the limits of his claim, shall act as a forfeiture of the claim.

25. RECORDS TO BE MADE.—Upon the establishment of a mind division and the opening of a mining recorder's office therein, and the proper office for recording all placer claims within such mining division, and making all records in respect thereof.

26. RECORD IN WRONG DISTRICT.—If through ignorance any tree miner shall record a placer claim in a different district or mining division, and making all records in the special place of the first person of the error and of the date of the rectification of the same.

27. DURATION OF RECORD.—A free miner, having duly located a placer claim, shall be entitled to record the same for one or more years upon payment of the fees set out in the schedule to

a pheer claim, shall be entitled to record the same for one or more years upon payment of the fees set out in the schedule to this act.

28. RERECORD OF A CLAIM.—A free miner shall, at any time during the existence of his record or re-record, be entitled to exceed the term of his interest in his placer claim for one or more record to the control of the place of each such holder's free miner's certificate; 4. The locality of the claim; 5. The period for which such re-record is granted; 6. The date of the re-record. From the place of the re-record is place of the re-record, and shall hake such application at the shall apply for a record, and shall hake such application at the liming record dated on the date of such application at the lawer a record dated on the date of such application apply for a re-record, and shall make such application at the lawer are record dated on the date of such application at the mining recorder's office during office hours, but during his absence, and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required by this act, and the particulars and shall leave the fee required and recorded and recorded as a such application and the mining recorded as a such application of the commercing to the control of the period of the period of the period of

34. Withes 18 Connection with Claim — Tunnels, shafts and ditches shall be considered as belonging to the placer claim for the whole they are constructed, and as abandoned or orfetted by the about they are constructed, and as abandoned or orfetted by the about they are constructed, and as abandoned or orfetted by the about the state of the s

conditions as to forfeithre, working, representation, re-recording and otherwise, for the time being in force with respect to placer class and otherwise, for the time being in force with respect to placer class and proceeding the place of the place of

norwinstanding.
41. Not ENTITLED TO LAY-OVER.—No placer claim located and recorded in any district within tourteen days before or at any time during the close season shall be deemed to be laid over, unless so much work shall have been bona file done thereon by the holder

so much work Shall have been bona had done thereon by The Bolder thereof as shall, in the opinion of the gold commissioner, fairly entitle him to have such claim laid over.

42. LAX-OYER DURING UNITED THE WASTER WHETE THE SUPPLY OF WATER.—Where the supply of waite r is insufficient to work hydraulic or other placer claims requiring water to enable them to be worked, such claims shall be laid over; virtue of this section during such insufficiency, but no longer, except by leave of the gold commissioner; but a notice of such insufficiency of water must be posted on the office of the mining recorder within three days from the cessation of

43. RECORD OF CHARGES ON CLAIMS.— Every bill of Sale, convexame or mortgage of a placer claim, or of any fraction thereof, shall be recorded within the time prescribed for recording placer

shall be recorded within the time possesses claims.

4. TRANSFERS,—No transfer of any placer claim, or of any interest therein, shall be enforceable unless the same or some memorandum thereof shall be in writing, and recorded in the record of conveyances.

45. "GOLD MINISG AMEXIMENT ACT, 1873." The transfer of any real estate acquired under the provisions of the "Gold Mining Amendment Act, 1873, 'shall be in writing, signed by the transferrer or his agent authorized in writing, and aftested by a subscribing witness.

# TUNNELS AND DRAINS.

46. LICENSE TO MAKE.—Any free uniner requiring to run or construct a tunnel or drain in connection with his claim through any occupied or more-upied lands, whether mineral or not, shall obtain a license from the gold commissioner for that purpose, which license shall be granted or withheld in the absolute discretion of such gold commissioner; and shall also give such security to the gold commissioner for my damage that may be caused by such tunnel or drain as such gold commissioner may require. Such itemse shall be subject to such terms and conditions is the gold commissioner shall think fit, and shall be recorded in the control of the property o

record book.

47. To BELONG TO CLAIM.—A tunnel or drain shall be considered as part of the placer claim or mine held as real estate, for which the same was constructed.

48. RIGHT OF WAY.—Any free miner may apply to the gold consissioner for a grant of right of way and entry through and upon any mining ground in his district, for the purpose of constructing a drain for public drainage of mines.

49. FORM OF APPLICATION. The application for every such grant shall be in writing, and shall set out the name of each applicant, the nature and extent of the proposed drain, the amount of

toll to be charged, the term of years for which such grant is to be made, and all other privileges sought to be acquired. The appli-cation shall be left at the maining recorder's office addressed to the gold commissioner. A notice of such application, setting out the above particulars, shall be posted on the office of the mining re-corder and on the ground for thirty clear days before such grant shall be made.

in transmissioner. A notice of such application, setting out the coroler and on the ground for thirty clear days before such grant for the more of the mining recorder and on the ground for thirty clear days before such grant shall be made.

50. DEFOSIT OF \$25.—The applicant for every such grant shall deposit with the mining recorder, at the time of the leaving of his application as aforesaid, \$25, which shall be refunded in case the application shall be refused way. Fire, Such grants shall be in writing and signed by the gold commissioner, and shall not be given for a longer period than twenty years, and shall not be given for a longer period than twenty years, and shall give such rights of way and entry and such powers to assess, levy and collect folls from all persons using such drain, or beneficied thereby, as the gold commissioner shall think fit, but not in any case to exceed the term, rights or powers GayAryFe.—The following covamints and conditions on the part of the granter and his assignshall be deemed to be part of every grant, whether expressed therein or not: (a.) That he shall construct a drain or drains of sufficient size to meet all requirements within a time therein named: (b.) That he shall keep the same in thorough working tories and repair, and free from all observed and expense to his assigns, at the cost and expense to the latter; such conditions of the grant of all or any part of the drainage works, materials and tolls, or any of them. (c.) That he shall, within a reasonable time, construct proper hap-arabity and reconstruction of any such tap-drains, but part of the drainage works, materials and tolls, or any of them. (c.) That he shall, within a reasonable time, construct proper hap-arabity and reconstruction of any such tap-drains for five days fail to proceed with such construction in saling works, materials and tolls, or any of them. (c.) That he shall permit such holders to construct of any such tap-drains for five days fail to proceed with such construction in shall permit such hold

#### WATER-RIGHTS

54. Every free miner shall be entitled to the use of so much of

54. Every free uniter shall be entitled to the use of so funch of the water naturally blowing through or past his placer claim, and not already lawfully appropriated, as shall, in the opinion of the gold commissioner, be necessary for the due working thereof.

A. V. V. CEPROPRIATED WATER. A free uniter may, at the inscretion of the gold commissioner obtains grant to a water-fight in any mappropriated water, for any placer mining purpose, for any term not exceeding ten years, upon such terms and conditions as such gold commissioner shall think fit.

55. HOW OFF MAND. Before applying for any such grant, the free miner shall—

(1.1) Post a notice in writing on a legal nost monsome consideration.

free miner shalt—

(1) To still intice in writing on a legal post upon some conspection. (1) To still intice in writing on a legal post upon some conspection and a copy of such notice on the other of the mining recorder for at least twenty days, which notice shall contain the following particulars: (a.) The name of each applicant; (b.) The number of each applicant's free miner's certificate; (c.) The name, or, if unimed, a smile-int description of the stream, lake or other source from which such water is intended to be taken; (d.) The pindiff of water applied for; (f.) The purpose for which at its required; (d.) 1, (e.) If apper than there hands on the same applied (e.).

The date of the notice, (2.) If more than three hundred inches are applied for, a deposit shall be made with the gold commissioner of \$25, to be refunded if the grant is not made.

57. RECOMORY OF GRANT.—The grant of such water-right shall be recorded in the office of the mining recorded in the record of water grants, within the time limited for the recording of placer claims, and shall during each year of the continuance of the grant, and while it shall be in operation, be re-recorded as in the case of a udacer claim.

MUST BE RECORDED. No grant shall take effect until

28. MIST BE REPORDED. NO grant Shall take effect until recorded.

29. SELLIMG WATER TO MINERS. No free miner shall be entitled to a grant of the water of any stream for the purpose of selling the water to claim-holders on any part of such stream. The gold commissioner may, however, grant such privileges as he may deem just, when such water is intended to work bench of free miners then using the water in convert of any water-right of the miners then using the water from the such that the rights at the properties of the properties of the properties as he may deem advisable, within the lamis mentioned in his grant; provided, always, that such owner shall be hound to supply water to all applicants, being free miners and on such terminal shall not demand more from one than another, except where the difficulty of supply is enhanced.

61. Rights of Miners Loc CTED BELOW DITCH HEAD. If, after the grant has been made, any free miner or free miners locate and bona fide work any placer chain below the difficient of miners of water the difference of the order of two humbred unders we allycerted and sixty inches if three hundred laches be diverted, and no more,

except upon paying to the grantee compensation equal to the amount of damage sustained by the grantee on account of the di-version of such extra quantity of water; and, in computing such damage, the expense of the construction of the ditch shall be

amount of damage sustained by the grantee on account of the diversion of such extra quantity of water; and, in computing such damage, the expense of the construction of the dirch shall be considered.

12. PRIMITY OF NOTE, PRIORITY OF ROTTE, On any dispute the considered.

13. PRIMITY OF NOTE, PRIORITY OF ROTTE, On any dispute the property of notice shall ensure the considered.

14. PRIMITY OF NOTE, PRIORITY OF ROTTE, On any dispute priority of notice shall constitute priority of right, if any, 63. DATE OF GRANT.—A grant duly recorded shall speak from the date of the grant, and not from the date of the record.

14. RESITS OF PERSONS USING WATER, Every soul, at the date of such grant, the working out that the date of such grant is working out the date of such grant, the working out the date of such grant is working out the date of such grant, the working out the date of such grant is worked to the work of the grant shall be deemed apportenant to such claim or mine, and whenever the claim democratic properties of the work of the water upon the claim or mine shall as real estate, shall be deemed apportenant to been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have been worked out the water upon the claim or mine shall have alter the grant shall be at an end and tetermined.

15. WHEN WORK MI ST BE COMMENCED—Within thirty days after the grant is made, the grant shall be distinct the water and water and shall prosed shall be observed to distinct the water and shall prosed shall be observed to distinct the water and shall prosed streamined to distinct the water and shall prosed streamined to distinct t

side of the orine.

71. Norther To Br Given to Gween memos above the hipper side of the orine.

73. Norther To Br Given to Gween when the head as real occupy any part of a pholiding any duch, to enter mon and occupy any part of a plate did not place make the lead as real occupance of a pholiding any duch, to enter mon and wenty need of any dich thereon, three days notice in writing of such intention shall be given to die owner of such ditch, before cutering or approaching within twenty feet thereon.

72. Goda COMMISSIONER MAY ALLOW BITCH. To Be DECRETED. Any person heretofore or hereafter engaged in the construction of any road or work may be a more than the construction of any road or work may be a more than the property of the construction of the constru

cure and maintain all culverts necessary for the passage of wase and superfluons water flowing through or over any such differ. In the open to Keep Dittol 18 KEPVIR. The owner of any ditch, hume or pipe. To Keep Dittol 18 KEPVIR. The owner of any ditch, hume or pipe. Shall construct and secure the same in a proper and substantial manner, and manutain the same in good repair to the satisfaction of the gold commissioner, and so that no learning shall occur to any road or work in its vientity, from any part of the works of such ditch, hume or pipe. 75, DWSER LIVIEE PIG INW WEB. The work of the maintain of the gold commissioner shall determine, all damage which may be occasioned by or through any parts of the works of such ditch, hume or pipe breaking or being imperfect. 76, WHAT IS EFFECT AL NOTICE. If any written notice to the party intended to be affected thereby be posted for ten days on some conspicuous part of any promases referred to in such soften and also on the office of the mining recorder, such notice 17, EFFECT AL NOTICE. When the term for which any water-right has been granted shall have expired, the granted thereof may, at the discretion of the gold commissioner, obtain a renewal of the same for a reasonable term, not to exceed ten burpose for which it was originally granted outlined. 78, Krients of Christic Colonial by and the colonial solution of particle of the lase of the province, across, through, along or under any ditch, water-right or mining right, in any crown land, without compensation, provided that as little damage as possible shall be done.

#### MINING PARTNERSHIPS.

MINING PARTNERSHIPS.

79. To Wn yr Class THIS SHALL APEXY—All mining partnerships shall be governed by the provisions hereof, unless they shall have other and written arricles of perference.

81. Store inpost he deemed to be a yearly partnership, necessable from year by year by taelt consent.

81. Store, The business of such partnership shall be mining, and such other matters as pertain solely thereto.

82. Richers Or.—Mining partnerships can locate and record in the partnership mane a placer claim for each partner who is a free miner. Such partnership claims may be located and recorded as a set of claims, and each such claim shall be staked as an ordinary placer claim. One stake on each such claim shall be marked as an initial stake, by writing thereon the words "initial Post." It shall not be requisite to post more than one location notice on each set of chaims, which notice shall be on the first initial post.

mary placer chaim. One stake on each such claim shall be marked as an initial stake, by writing thereon the words "initial Post." It shall not be requisite to post more than one location marked set of chains, which notice shall be on the first mitial post.

83. RECORD OF PARTNERSHIP CLAIMS.—A set of chains may be recorded in one record. The name of every partner, and the number of every partner's free miner's certificate, shall be on the record of every such set of chains. The partnership name shall appear on every such record, and all chains so taken up shall be the control of an interest which he may hold therein; but the result of the votes given shall be determined by the number of the full interests voted upon, and not by the number of partners set of the control of the

#### LIMITED LIABILITY.

9). Any mining partnership, composed of two or more free miners, and being free from all debts in respect of the partnership property, may limit the liability of its members, upon combining the property of the many of the partnership and the partnership the location and size of every partnership claim, and the parthetular interest of each partner; and also placing upon a conspicuous part of every such claim, or set of edium, in large letters, the name of the partnership, followed by the words "Limited Liability."

22. "LIMITED LIABILITY." To BE ALDER TO NAME.—The words "Limited Liability" shall thereupon become part of the partnership name.

23. EFFECT OF SAME.—After such conditions shall have been complied with, no member of such partnership shall be liable for any indebtedness incurred thereafter, beyond an amount proportioned to his interest in the partnership.

24. DUTINES OF—Every such partnership.

25. The partnership is the same amount proportioned to his interest in the partnership shall keep a correct account of its assets and liabilities, together with the names of account of its assets and liabilities, together with the names of account of its assets and liabilities, together with the names of the nonthly balance sheet showing the names of the creditors, and the amount due to each, and file the same among the papers of the partnership; and such balance sheet and all the books of the partnership; shall be open to the inspection of creditors at all reasonable hours.

25. PARTNER MAY SELL HIS NYEREST—Every partner in each of the partnership shall be at liberty to sell or dispose of his interest in proportion to his interest in the partnership.

26. TO AVOID FUTURE DEFIS.—No member of such partnership after a bill of sale conveying his interest has been duly recorded, or after he has served a notice of abandonment of his interesting and the sale his lie of any indebtedness of the partnership incurred thereafter.

27. DIVIDEND.—No such partnership shall be farmership incurred thereafter, who shall represent the partnership, and who shall is abilities have been paid.

28. FORENN.—Every such partnership shall be liable for any other indebtedness than that contracted by its foreman or manager, who shall represent the partnership shall be deemed to be the entiracts of the partnership is that be

#### BED-ROCK FLUMES.

100. APPLICATION FOR RIGHT OF WAY.—One or more free miners may apply to the gold commissioner for a grant of exclu-sive rights of way through and entry upon any mining ground in his district, for the purpose of constructing, laying and maintain-

a bed-rock flume.

his district, for the purpose of constructing, laying and maintainlot. How APPLICATION IS MADE—Every such application
shall be in writing, and shall be left at the mining recorder's
shall be in writing, and shall be left at the mining recorder's
shall be always and shall be left at the mining recorder's
sought to be acquired. Thirty days' notice of such application
shall be given, by affixing the same to some conspicuous part of
the ground through which the rights of way are asked, and acopy
thereof upon the walls of the contributes or of the office of the
mining recorder of the district. The same application, say of
one hundred and fifty feet along the proposed main line or course
of the flume, with a notice of such application affixed to one of
such posts. And it shall be competent for any free miner to protest before the gold commissioner within such thirty days against
such application to agrant slar greated, but not afterward. Every application for agrant singer recorder, which shall be retunded if the
application be refused, but not otherwise.

10. Texas.—Every such grant shall be in writing, signed by the
gold commissioner, and shall be for a term not exceeding five
years.

102. Term—Every such grant shall be in writing signed by the gold commissioner, and shall be for a term not exceeding five years.

103. Rights of Grantee.—The grantee shall be entitled to the following rights and privileges, that is to say: (a.) The right of way through and entry upon any new and unworked river, ereek, guich or ravine, and the exclusive right to beat and work to give the bed thereof to each grantee named in such grant. (b.) The right of way through and entry upon any river, ereek, guich or ravine, worked by miners for any period longer than two years prior to such entry, and already wholly or partially abandoned, and the exclusive right to stake out and work both the unworked and the miner for any period longer than two years prior to such entry, and already wholly or partially abandoned, and the exclusive right to stake out and work both the unworked and the miner of the such and work both the unworked and the miner in the lineigh, for each grantee named in such grant. (c.) Such right of way through and entry upon any river, ereck of a pupilication before mentioned, and upon any portions of which any free miner is legally holding and bona fide working a claim as to the gold commissioner may see advisable. (d.) The right of way through and entry upon all placer claims which are at the time of the notice of application before mentioned bona fide being worked by any free miner, for the purpose of cutting a channel and laying his finant therein, with such reasonable space for constructing, maintaining and repelling the globes space for constructing, maintaining and repelling the globe of other minerals found in the cut so made. (c.) The use of so much of the mappropriated water of the streams, as may be necessary for the space of the grantee's times, hydraalic power and machinery to carry on his mining operations, and the right of way for ditches and finances to convey the necessary water to like works, subject to yrunning such diches or finnes, through or over their ground. (f.) The right to all

thune is to run may put in a bed-rock fume in his claim to concert with the grantee's fume, upon giving the grantee ten days with the grantee's flume, upon giving the grantee ten days with the grantee of the days with the grantee of the grantee.

105. Detties of Sycil CLAM 101,100. A claim-holder constructing such thune throughly be entitled to all the gold or other minerals found than the shall be subject to the same regarding of the grantee of the grantee, and such days the grantee of the grantee, by uniting his claim-holder shall have become a partner of the grantee, by uniting his claim and then before the abundonment of shall have become a partner of the grantee, by uniting his claim and then with the grantee of the grantee, and the grantee of the may abundon his claim and thune and such abundonment shall enuie to the as and benefit of the Works To Be Doyse. The grantee shall as at the North Works To Be Doyse. The grantee shall ga at the bound of the grantee.

105. Development of the gold commission of the flume but the amount of flume to be hald may be reduced at the discretion of the gold commission. Where the before the such as the shall shall be continued to the same of the gold commission where a bed-rock flume exists shall be outtle but so his shiees, hydraulies, and ground shifted into some outlet but so his shiees, hydraulies, and ground shifted into some outlet but so his shiees, hydraulies, and ground shifted into some outlet but so his shiees, hydraulies, and ground shifted into some outlet but so his shiees, hydraulies, and ground shifted into some outlet but so as not to obstruct the free working of such into the flume and by rocks, stones, bowders or otherwise.

105. Per LAUS flourer of such the mining recorder annually a rent of \$12.250 for each quarter of a mile of right of way legally held under such grant.

106. Nextension of

IEANES.

112. How ORTAINED. After miner destring to obtain a lease of any placer mining ground shall mark out such ground by placing a legal post at each corner and shall post a notice on the post nearest to the placer mining and shall post a notice on the post nearest to the placer mining and shall post a notice on the post nearest to the placer mining and the neither of the mining recorder, which notice shall not 1. The name of each applicant; 2. The locality of nor which such lease is to be applied for, for staking the ground and posting the notices as aforesaid, shall nake an application in writing addressed to the gold compressioner, and leave the same at the office of the mining placant; 2. The underto the application is writing addressed to the gold compressioner, and the ground; 4. The quantity of the place of the property of the place of the post of the property of the place of th

inworked or abundoned rivers, for hydraulic workings, application for which bench lands may be made for any term not exceeding twenty St. Of GROUND. Applications shall not be for greater than the following areas or distances. In dry diegines, tornerers, in har diagrings unworked, half a mile in length about the highwater mark; in bar diagrings which have been buch and abandoned, one mile and a half in length abose the mile and a half in length abose to mile and a half in length abose, one mile and a half in length abose, one mile and a half in length; in bench ambs alphandored and skyty areas, but in such lands the length shall so on the same and a half in length; in bench ambs alphandored and skyty areas, but in such lands the length shall so or say exceed half a mile.

117. Exekutrit which is immediately available for mining by in the miners, miless with the consent of such occupancy of the miners, miless with the consent of such occupancy in the discretion of the gold commissioner; and may not be shall think it.

118. GRANTING LENGE. The lease may be gen may more fused in the discretion of the gold commissioner; he shall think it.

119. APPLICATION EXCEPTION SACEPTION EXCEPTION EXCEPTION EXCEPTION EXCEPTION FOR the miners, miles and no lease shall be in witting, signed by the gold commissioner and the granted on a new happlication without his sametion.

12. CONTENTS OF LEASE. Every lease shall provide for sec.

lessee.

121. CONTENTS OF LEASE. Every lease shall provide for securing to the public reasonable rights of way and water, and shall contain a covenant by the brids of way and water, and shall rike manner, and shall not such covenants for the continuous working of an absolute of the continuous working of and shall reserve the right to free miners to enter on such ground and think reserve the right to free miners to enter on such ground and time for veins or lodes, as defined by the "Mineral Act, 1891."

122. FORFEITURE OF LEASE. On the non-performance or nonobservance of any covenant or condition in any lease, such lease
shall be declared forfeited the gold commissioner, and become
absolutely void, and the ground meladed in such lease shall there
upon be open for NA your PLACER MINING.

123. Large property of the gold commissioner, and become
property of the gold commissioner, and become
property of the gold commissioner.

124. HADRALLE WORKING ON THE MINING LEASES Shall be
property of the gold commissioner of such lands adjoining unworked or abandoned rivers are held
under lease for hydraulic worker or abandoned rivers are held
under lease for hydraulic worker or abandoned rivers are held
under lease for hydraulic worker or abandoned rivers are held
under lease for hydraulic worker or abandoned rivers are held
under lease for hydraulic worker or abandoned rivers are held
under lease for hydraulic worker or gold commissioner of such quantity of unappropriate worker or gold commissioner of such quantity of unappropriate to convey such shall have the same
propriate or such as a such shall have the same
different and flumes to convey such water probe bench lands shall have been either for hydraulic working, which grand. Whenever such bench
lands shall have been either worked, and the gold commissioner,
and if at the lease, of exattlistaction of the gold commissioner,
and lease and grant, for such reasonable and such contreasonable lease and grant, upon the same control of the same
to work out such particion of said lands as the remain unworked,
and the gold commissioner may servided, that whenever the
hench lands so held undersion for the same textusion by memoradium indorsed on the lease gortron of said kinds and remain unworked,
and the gold commissioner may servided, that whenever the
hench lands so held undersion for the same and undersity of the
hench lands so held undersion for the same and the major of the
essential states and grant, for well reasonable in the
hench lands so held undersion for th

the owner thereon.

125. RECORD OF WAYER GRANTS.—Every grant, and every restension of a grant, of a water-right for bench lands leased for hydraulic working shall be recorded in the "Record of Water figures," it is shall not be necessary to re-record such grants or Grants," but it is hall not be necessary to re-record such grants or Grants," but it shall extension annually.

extension annually.

123. GLANT OF LEANE OF BED OF RIVER. It shall be lawful or the gold commissioner, with the sanction of the lieutenantial or the gold commissioner, with the sanction of the lieutenantial or the gold commissioner, with the sanction of exceeding greatry years, of the bel of any river below any executing real to the degree of the sanction of the s

#### MINING RECORDERS.

127. APPOINTMENT. The lieutenant-governor in conneil may appoint any person to be a mining recorder in and for any part of the province.

appoint any person to be a mining recorder in and for any part

28. APPOINT FOR MINERS. Where mineral land is distensored in a part of the province so situate that the provisions of
this are not to province so situate that the provisions of
the province of the province so situate that the provisions of
the provision of the province so situate that the provisions of
the provision of the province of the province of mining more
person of the province of the province of the province of the province of
the province of the province of the province of the province of
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the province of the province of the province of the province
to issue from make retilientes and to enter records of mining
property, any minformality therein: provided that all the province of the same in accordance of their miners
to this zet, and a list of all free mines of the same inmal the date and term thereof, and the order of the same intensor of the province of the same income of the province of the province

counterfoils, one of which counterfoils shall be filed in the office of the mining recorder.

131. Books To Be KELT.—Every mining recorder shall keep the following books, to be used for pideor mining centries: (a.) A book to be known as the "Record of Middaysts," (b.) A book to be known as the "Record of Middaysts," (d.) A book to be known as the "Record of Middaysts," (d.) A book to be known as the "Record of Control of Cont

granted and forteiture declared by the gold commissioner, in the record book.

134. OF WATER GRANT.—The mining recorder shall record all water grants and extensions thereof in the record of water grants.

135. OF ABANDONMENT. Upon the receipt of a notice of abandonment, the mining recorder shall record the same in the record of abandonments, and the such notice, and write aeross the record of abandonments, and the such notice, and write aeross the record of the claim affected by such notice, in the record book, the word "Abandoned," and the date of the receipt by him of the notice. If only an interest in a placer claim is abandoned, and not the entire claim, the memorandum in the record shall show which interest is abandoned.

136, OF AFFIDAVITS,—The mining recorder shall record, by copying out verbatin, all affidavits and declaratory statements brought to him in connection with his office, in the record of

137. OF DOCUMENTS OF TITLE.—The mining recorder shall re-cord, by copying out verbatim, in the record of conveyances, all conveyances, mortgages, bills of sale, contracts for sale and other documents of title, including powers of attorney or other authorities to excent ead or any of the above description of docu-ments, when brought to him for that purpose.

138, OF OTHER BOCKMENTS.—The mining reorder shall record all other documents relating to mining property which may be brought to him for record, and shall file all such documents which may be brought to him to be filed.

139. ENTRY TO SHOW DATE.—Every entry made in any of the mining recorder's books shall show the date on which such entry was made.

140. BOOKS OPEN FOR INSPECTION.—All books of record shall, during office hours, be open to public inspection free of charge, and documents filed shall be open to public unspection upon payment of the fees set out in the schedule of this act.

441. OFFICE COPIES EXTREMELS.—Every copy of or extract from any entry in any of the said books, or of any document filed in the unliming recorder's office, certified to be a true copy or extract by the mining recorder, shall be received in any court as evidence of the matters therein contained.

42. FERS TO BE PREPAID.—Before issuing any free miner's certificate, or substituted certificate, or making any entry Fam book or record, or filing any document, or making any copy or extract therefrom, the mining recorder shall collect the fees payable in respect thereof, as set out in the schedule to this act.

143. RECORDER TO RECEIVE DOCUMENT.—The mining recorder shall receive all applications and other documents addressed to or intended for the gold commissioner, and forward the same to the gold commissioner.

144. To RECEIVE MONEY.—The mining recorder shall receive all deposits of money directed to be made by this act, and apply the same as directed by this act

145. To Collect Rent.-The mining recorder shall collect all rents collectible under the conditions of any lease or other docu-ments granted under the provisions of this act.

thems grained under the provisions of this act.

146, Disposition or Moneus Collected.—The mining recorder shall forward to the provincial treasury all fees, rents, fines, penalties and other moneys collected or obtained by him in accordance with the provisions of this act.

147. Recorders Softenes—It shall be lawful for the lieutenant-governor in council to divide and subdivide any district into mining divisions, and to establish in each or either mining division a mining recorder's office.

sion a mining recorder's office.

18. EPFERTOF ESTABLISHING IRECORD OFFICE.—Upon the establishment of a mining division, and the opening of a mining recorder's Goifee therein, under the authority of the last preceding section: (a.) Such office, and none other, shall be the proper office for recording all placer claims, records, extificates, documents or other instruments affecting claims, placer mines held as real estate, or placer mining property situate within such mining division, and whenever, by this set or any act amending the same, commissioner or mining property situate within a mining division, and whenever, by this set or any act amending the same, commissioner or mining recorder of the district, it shall, if the same affects or concerns any claim, placer mine held as real estate, or placer mining property situate within a mining division, be done at or in the other of the mining recorder of the mining from the control of the mining division wherein such claim or mine or other mining property is situate, (b.) Upon the district or division of any mining recorder being divided or subdivided into mining divisions, it shall be the duty of such mining recorder to make, or cause to miscerious and of this act, affecting claims, placer mines held as real estate or placer mining property, situate in each newly recreated mining division, and such transcript shall be kept in such office and part of the records of such office, and all transcripts of such records, certificates, documents, or other instruments of the instruments of the control of the control of the control of the records, certificates, documents, or other instruments of the instruments of the other as a part of the records of such office, and all transcripts of such mining division, and such transcript of the other of 148. Effect of Establishing Record Office.-Upon the

examence in all courts of judicature in the province.
149. GOLD COMMISSIONER TO HAVE ALL POWER OF MINING
RECORDER.—When there shall be no mining recorder for a district or division, the duties of the mining recorder shall devolve
upon the gold commissioner, and it shall at all times be lawful
for the gold commissioner to perform the duties of the mining
recorder, and the gold commissioner shall have all the powers of
a mining recorder.

150. OFFICE HOURS.—The mining recorder's office shall be open upon all days excepting public holidays, from 10 A. M. to 4 P. M., and such times shall be deemed the office hours of such office.

#### GOLD COMMISSIONER

t5t. Powers.—It shall be lawful for the gold commissioner to erform the following acts in accordance with the provisions of this act:

(a.) He may lay over any or all claims, and may grant to any holder of a claim leave of absence for such period and reasons as he may think proper.

(h,1) He may prescribe the number of miners who shall be required to work in prospecting a set of claims until gold in paying quantities is found.

quantities is round;
(c) For the more convenient working of back claims on benches
or slopes, the gold commissioner may permit the owners thereof
results and the state of the neling from the main frontage.

(d.) He may mark out a space of ground for deposits of leavings and deads from any tunnel, claim or mining ground, upon such terms as he may think just.

(c) He may count just.
(c) He may extend the limits of a claim in "bench diggings" heyout the limits of the bench, but not to exceed one hundred feet square.

(f.) He may, in cases of disputed boundaries or measurements, employ a surveyor to mark and define the same, and cause the reasonable expense thereof to be paid by either or both of the parties interested therein.

(g.) He may permit or order mining posts to be moved.

(9.) He may permin of corier mining posts to be social carried on as not to interfere with or endanger the safety of the public, any public works or highway, or any nining property, mineral claim, placer claim, bed-rock frain or bed-rock finne; and any abandloned works may by his order be either filled up or guarded to his satisfaction, at the cost of the party who may have constructed the same, or, in his absence, upon such terms as he shall

(i) He may, upon application made to him, allow a free miner such right of entry upon any adjacent claim as may be necessary for the working of his claim, and upon such terms as may to him seem reasonable.

(j.) He may grant licenses and rights of way for the purpose of constructing drains or tunnels, and may exercise such powers as are specified in Part III of this act.

as are specified in Part 111 or Inis act.

(b.) He may grant water-rights, and renew the same, and declare the same forfeited, and grant all such privileges and exercise such powers as are specified in Part IV of this act.

(c) He may grant rights of way for the purpose of constructing a bed-rock funne, and may extend the grant at its evaporation, in accordance with Part VI of this act.

m... He may grant leases of placer mining ground, and of un-appropriated water to work the same, and may grant renewals of such leases, and grant such privileges and exercise all such powers as are specified in Part VII of this act.

powers as are specified in Part VII of this act.

132. "GoLO MINING AMESDMENT ACT, 1873." Notwithstanding anything contained in the "Gold Mining Amendment Act, 1873." or in any crown grant Issue consider the san act, 1874. The properties of the same of the s

153. PULL POWER.—The gold commissioner—shall have power to do all things necessary or expedient for the carrying out of the provisions of this act.

#### ADMINISTRATION

134. DECEASED MINER'S PROPERTY.—The gold commissioner shall take possession of the mining property of any deceased free miner, and may cause such mining property to be duly worked, or dispense therewith at his option.

or dispense therewith at his option.

155. ESTATE OF LESS THAN \$300. The gold commissioner, or any person authorized by him, shall take charge of all the property of any deceased liree miner until the issue of letters of administration or probate of the will, if any, provided, however, that where any tree uniter shall de intestate, and the value of its shall not be necessary for the gold commissioner to obtain from any court letters of administration, but in such case the gold commissioner may administer and wind up the personal estate of the deceased, and do all things necessary and proper therefor, and act in all respects as if letters of administration to the personal estate of such deceased tree miner had been granted to the administration, before a judge of the county court of the district.

COUNTY COURTS.

#### COUNTY COURTS

JURISDICTION, PROCEDURE, FORMS AND COSTS. See Sections 149 to 164 of mining act, preceding.

#### MANITOBA

Compiled by HOUGH & CAMPBELL, Barristers, etc. Office, McIntyre Block, Winnipeg, Man.

#### CORPORATIONS.

CORPORATIONS.

LETTERS PYTENTOF INCORPORATION.—All companies, except railway and insurance companies, are created either by special act of parliament or by letters patent issued under the provisions of the "Manitobia Joint Stock Companies, act" by the leater file. "Manitobia Joint Stock Companies, act" by the leater file. "Manitobia Joint Stock Companies, act" by the leater file. "Manitobia Joint Stock Companies, act" by the leater file. "Manitobia Joint Stock Companies, act" by the leater file. "Manitobia Joint Stock Companies, act" by the leater file. "In the same, stating therein, first, the proposed name of the company, which shall not be that of any other known company; second, the object for which incorporation is sought; third, the place within the province of the proposed name of the company, which shall not be that of any other known company; second, the object for which incorporation is sought; third, the place within the province with the number and address, and calling of each of the applicants, with special mention of the names of onless than three nor more than nine of their number, who are to be the first directors of the company. The application is made by petition of not less than five persons, stating the facts required to be set forth in the nuclear particular and also that the amount, so that in Jone 1 and 1

Directors shall not declare a dividend when a company is insol-

company, and not declare a dividend when a company is insoluted or which renders the company insolvent or reduces the capital stock, and they shall be founding and severally liabile for the wages of all servants, laborers and apprentiese, excluding the officers of the company, not exceeding one year, for services performed for the company while they are directors expectively.

CAPITAL STOCK. The capital stock of the company shall not exceed five hundred thousand dollars (\$500,00). When they have the hundred thousand dollars (\$500,00). When they have they have the reduced five hundred thousand dollars (\$500,00), when they have the reduced five hundred thousand dollars (\$500,00), but no increasing the explicit manner which they have consider increasing the capital stock shall have any force or effect until sanctioned by a vote of at least two-thirds in value of the shareholders at a general meeting duly called for considering the same and it shall afterward be confirmed by supermentary letters patent.

LIMILITY OF SHARKHOLDERS. Each Sharchider, until the whole amount of his stock is fully paid up, shall be individually liable to the creditors of the company showed or the company and the company are defended on the superior of the company and the company of the co

holders.

CALS.—The directors may call in all subscribed stock in such manner as the letters patent or by-laws of the company may require or allow freezest at 6 per cent, is added to impaid calls from an added for payment. Not less than ten per cent, shad an added for payment. Not less than ten per cent, shad pradde within one year from incorporation. The control of the directors may summarily forfeit any shares for non-payment, and the same shall thereupon become the property of the company. Shares shall not be transferable until all unpaid calls are tully paid, or until declared forfeited, and no share-

holder in default for non-payment of calls shall be entitled to

wote at any meeting of the company.

TRANSFERS.—Books must be byt wherein are entered all transfers of siles. Hooks must be per the wherein are entered all transfers of siles of each transfer. The directors may refuse to allow the entry in such book of any transfer of stock wherein any earl has been made which has not been paid in.

CONTRACTS.—All contracts, agreements, engagements or bargains made and every bill of exchange or promissory note drawn, accepted or indorsed on behalf of the company, or bargains made and every bill of exchange or promissory note drawn, accepted or indorsed on behalf of the company of the by-laws of the company of the undertaking, and may take and hold such lands and tenements, real and personal property and law reduced the by-laws of the company of the undertaking, and may take and hold such lands and tenements, real and personal property and may reduce the by-laws of the company of the undertaking and may take and hold such lands and the same for a property of the lands and because of the company and law reduced by a vate of not less than two-thirds in value of the shareholders at a general or special general meeting to be called of the company, and Issue the bonds, debentures or other securities of the company, and asset the sone at such prices as may be deemed expedient or necessary. The directors may be for less than one hundred delahay nortizage or pledge the reduced the proposes thereof.

ANY OFFITERENTS. Every company shall one of before the last of December preceding, with the munder of shares held by each.

2. The name of the company to secure any sums borrowed as the name of the company can be directors.

liveach.

2. The names and addresses of the directors, secretary and treasure of the company.

3. The amount of the capital stock and the number of shares.

4. The number of shares subscribed for and taken.

5. The amount of stock issued free of call, if any.

6. The amount of stock issued free of call, if any.

7. The amount of calls made on each share.

8. The total amount of calls impaid.

10. The total amount of calls impaid.

11. The total amount of shares offeited.

11. The total amount of shares which have never been alloted or taken up.

11. The total amount of shares which have never been adoted or taken up.
12. The total amount for which shareholders are liable in respect of unpaid stock respectively.
The said list must be verified by the oath of the president and secretary, and one copy posted up in the company's head office in Manifolm and the other deposited in the department of agriculture and limitigration.

#### LIENS.

LIENS.

Every person turnishing materials to be used in the construction, alteration or repair of any building or erection, or creeting, furnishing or placing machinery of any kind, in monor or construction, and the second of the connection with any building, erection or mine, and they write thereof have a flen or charge for retiring or mine, and the lands occupied they are not seen to be seen that the second of the second of the second of the lands of the second of the sec

statement may be filed during the progress of the work of warms thirty days after its completion. The said statement of claim shall state:

1. Name and residence of the claimant and of the reputed owner the materials or machinery were provided, and the time or period within which the same were to be furnished.

2. The materials or machinery furnished.

3. The same claimed as due or to become due.

4. The description of the land to be charged.

The statement must be verified by an affidavit of the person entitled to the lien, or one of them, if there are more than one, the person cutified to such lien shall upon the filing or registration thereof be deemed a pure Tvery such lien shall absolutely read the state of the person of the same than the filing or registration thereof be deemed a pure Tvery such lien shall absolutely readles such claim under the provisions of the "Mechanics' Lien Act" and a lis pendens registered in the proper land titles office, which is such as the claim is which in the same of two hundred and diffy dollars (\$250, proceedings may be taken in the county court for sell the lands charged, although, whether for more of overeilings may be taken and instituted in the court of queen's bench on it requires as it may think proper, and may also direct the sale of requires as it may think proper, and may also direct the sale of

as equity sate.

The court may then make sale of the estate in such manner in each case as it may think proper, and may also direct the sale of the materials or machinery, and authorize the removal thereof, although fixtures.

If the land charged be incumbered, existing or created before the placing of the machinery or materials, such mortrage shall not have priority over the hen to any greater extent than the actual value of such land at the time the hiprovements were

not have promy over the design of the limprovements were commenced even mental value of such land at the time the improvements were commenced by the continuous and the proceeds of the sale are insufficient to satisfy all in full, said proceeds shall be distributed among them ratably and part passu.

LIENS FOIL CHATTELS, "The Manitoba statute known as "The Lien Note Act" provides as follows:
"On, from and after the twenty-seventh day of July, in the vear one thousand eight hundred and eighty-six, receipt notes, hire receipts and orders for chattels given by ballees of chattels, where the condition of the ballment is such that the possession where the condition of the ballment is such that the possession of manufactured goods or chattels, which, at the time the bailment is entered into, have the manufacturer's name or some other distinguishing mane painted, printed or stamped thereon or otherwise plainly attached thereon; and no such ballment shall be valid unless it be evinced in writing, sized by the person thus taking possession of the chattel."
"Every manufacturer and his agents shall be failed to any sych manufacturer and his agents shall be failed, and sked for, such manufacturer or agent shall be table to a fine of not less than ten dollars (810) or more than fifty dollars (\$50) on conviction before any justice of the peace."

#### MINING

MINING.

EXPLORATION.—Any person may explore vacant dominion lands within the province of Manitoba not appropriated or reserved by government for other purposes, and may search therein, either by surface or subterranean prospecting, for mining a mining location for the same, but no mining location for the same, but no mining location for the same, but no mining location or claim, shall be granted until actual discovery has been made of the vein, lode or deposit of mineral or metal within the limits of the location or claim.

TITLE—The absolute title to all the vacant and unsurveyed lands in Manitoba and the northwest territories of Canada at the time of the transfer (180) vested in the crown represented by rights and locations in the province of Manitoba are regulated and controlled by the department of the interior at Ottawa and by an officer known as the superintendent of mines, resident at Calgary, N. W. T. Patents of lands may or may not cover the mineral rights. In many cases such rights are reserved, although the practice at the present time is to make all crown grants absolute, and unconditional, and to cover both surface of Canada and Cantrolled by the department of mining, except for iron, on veins, lodes or ledges of quartz shall not exceed lifteen hundred text in length and sux hundred feet in breath. Any person having discovered a mineral deposit may obtain a mining location florefor in the following manner:

1. He shall mark the location on the ground by placing four wooden posts, one at cach corner, driven at least eighteen inches stones, at least three feet in diameter at its base and eighteen inches high and showing that length above it. On the northeast angle post he shall mark legibly, with a cutting instrument or with colored chalk, his name in full, the date, and the letters M. L., No. 3, and his initials; on the southwest angle post the letters M. L., No. 3, and his initials; on the southwest angle post the letters M. L., No. 3, and his initials; on the southwest angle post the letter of th

five dollars (\$5).

3. The agent shall grant a receipt to such elaimant, which shall authorize him or his representatives or assignees to enter into possession of the location and subject to its renewal from year to year during the term of five years, to take therefrom and dispose of any mineral deposit, provided that during each of the five years after the date of such receipt, he expends at least the sum of one hundred dollars (\$1000 h) actual mining operations on

The claimant may at any time before the expiration of the five years purchase the location at the rate of five dollars (53) per years purchase the location at the rate of five dollars (53) per order cash after filing with the agent proof that he has expended not less than five hundred dollars (530) in actual mining opera-tions on the same. On making the application to purchase he shall deposit with the agent firty dollars (530 or the survey of twyorgeneral) of the plans and field notes and his approval thereof, a patent shall issue to the channat. Priority of discovery shall not in all cases give the right to acquire if the original discoverer has failed to comply with the government regulations, but the first discoverer shall in all cases be entitled if he can prove possession by demarcation in the matter prescribed, on the same lode or vein. Assicomments. The claimant may at any time before the expiration of the five

certificate of assignment and the evecution thereof attested by two disinterested witnesses. Upon the deposit of such receipt or certificate with the agent, accompanied by a fee of two dollars (32) the agent shall give to the assignee a certificate which shall cuttle the assignee to all the rights and privileges of the original discoverer in respect of the claim assigned. All assignments must be approximated to the control of the control

be illustrational and execute regulations.

Placer Mining. The size of the claim shall be as follows:

1. For "bar diggings" a strip of land one hundred feet wide at high water mark and thence extending into the river to its

high water mark and thence extending into the river to its lowest water level.

2. For "dry diggings" for feet square.

3. For "creek and river claims" 100 feet long measured in the direction of the course of the stream, and shall extend in width from base to base of the hill to bench one ach side, but when the hills or benches are less than one hundred feet apart the claim shall be one hundred feet square.

4. For "bench chaims" one hundred feet square.

4. For "bench chaims" one hundred feet square.

4. For stream or ravine shall have a frontage of no feet drawn parallel to the main direction thereof and shall be laid out as nearly as possible in the manner prescribed for quartz mining locations.

mining locations.

If any person or persons discover a new mine and such discovery shall be established to the satisfaction of the agent, claims of the following size in dry, bar, bench, creck or hill diggings shall be allowed:

sman be allowed:
To one discoverer, three hundred feet in length; to a party of
two, six hundred feet in length; to a party of three, eight hundred feet in length; to a party of four, one thousand feet in length,
and to each member of a party beyond four in number a claim

dred feet in length; to a party of four, one thousand feet in length; and to each member of a party beyond four in number a claim of the ordinary size.

Applications for rants of placer uninings, renewals and the regulations for lengelest the same as in quartz mining, and the regulations relating to quartz inining apply where applicable to placer mining. No miner shall receive a grant of more than one mining claim in the same locality, but he may hold any number of claims by purchase.

ABANDOMENT, ETC.—A claim shall be deemed abandoned when the same shall have remained unworked on working days by the control of th

wininger.

No forms of procedure are necessary, but the complaint must be reduced to writing and a copy served on the opposite party not less than seven days before the hearing. The complaint may be amended at any time by leave of the superintendent of

in the sumended at any fine by leave of the supermemonic of mines and the of twenty dollars (\$20) shall be deposited by the complainant at the time of filing his complaint, which shall be returned to him if he succeeds, but not otherwise.

If the decision of the superintendent of mines is appealed from a notice to that effect must be drawn up stating the grounds of such appeal and filed with the superintendent of mines not more than three days after his decision is communicated to the parties interested, and a bond fee of twenty dollars (\$20) deposited with the agent at the same time, which will be returned to the applicant if successful, but not otherwise.

Inox Locations.—The minister of the interior may grant a location for the mining of iron not exceeding one hundred and sixty (160) acres in extent, which shall be bounded by due north and sout and east and west lines, and its breadth and length shalf be equal.

sixty (160) acres and west lines, and its breadth and length shall be equal.

The regulations relating to quartz mining shall in all cases, the regulation of the property of

peeting.

If the lands be not included in any surveyed township, the applicant shall stake out the same by placing at each angle or corner a stake or post four inches square and standing not less than four feet above the ground, and on each post he shall inseribe his name and the angle represented thereby, thus:

B.'S. N. E. Corner," or as the case may be, and with his application he shall forward to the minister of the interior, a may exclude the continuous stakes of the continuous stakes of the continuous stakes of the continuous describing the same; and all boundaries so staked out shall be due north

and south and east and west lines, and the length thereof shall not exceed twice the breadth.

The regulations provide for the settlement of disputes between the grantees of mining that and surface rights respectively, and the reference of sie emberences to arbitration.

All command Manifesta, should be addressed to the Manifesta that the surface of the properties of the property of the property

## NEW BRUNSWICK

Compiled by EMMERSON & CHANDLER, Barristers and Altorneys at Law, Dorchester, N. B.

#### CORPORATIONS

region and the secondary of the secondary of the property of the property of the secondary of the secondary

RESTRICTIONS, ETC.—Companies incorporated under the act may not issue notes payable to hearer or engage in banking or insurance. No company incorporates under the act shall issue stock to represent increased only incorporates under the act shall issue stock to represent increased only incorporates under the continuous continuous and the watering of any property of the company and the watering of any property of the company incompany in the continuous payable in the company to any sharehold in any change therein shall be adverted. Any inclinion may be prosecuted between the company to any shareholder. The charter of the company to any shareholder. The charter of the company at any one time, or in the company do not go the continuous actual operation within three years after the grant the act may apply for felters patent thereing the continuous actual operation within three years after the grant the act may apply for felters patent the counterpay shall be made by the directors at each general of the company therefor, with the concurrence by the continuous actual payable than the special general meeting the properties of not less than two shell bonds shall be made by the directors at each general of the company therefor, with the concurrence by the properties of the company therefor, with the concurrence by the properties of the continuous shell bonds shall be made to the standard for that purpose. The amount of shell bonds shall be made to the present or represented and of the continuous and otherwise over ordinary stock.

MINING.

#### MINING.

Acts of Assembly, 1891, Chapter 16.

Under the present act "prospecting heenses," giving the right to search for gold and silver, and "fleenses to search," giving the right to search for names other than gold and silver, may be

Under the present act "prospecting theness," giving the right to search for gold and sitver, and "diceases," giving the right to search for mmes other than gold and silver, may be taken out.

Quartz mines are had oft in areas of one hundred and fifty feet by two invadred and fifty feet in rectangular shape. Allow in the prospect of the prospect of the prospect of the prospect of gold and silver areas from the surveyorge, allow in manufactured of gold and silver areas from the surveyorge every area leased for the first year, the sum of silver areas grown in a proplection in writing and upon payment of sealed great great leased for the first year, the sum of silver areas grown in the prospect of the prospect of

pecting license or a lease of a gont and error in connect.

MINES OTHER THAN GOLD.—Licenses to search for minerals other than gold or gold and silver may be granted, to be in force for one year from date of application. The license fee is \$80, and the license may cover any tract not exceeding the square miles in extent, but not more than two and a laif miles in length, always by required at the cost of the licenses. The license may be released for another twelve months on application not less than thirty days before the expiration thereof and on payment of the sum of \$20. Second rights to search over the same area

may be granted, provided that no more applications shall be received than there are areas of one square mile each within the area first applied for. The holder of a license to search may at any time before the expiration thereof select an area of one square mile from the hand covered by the license for working the nines therein, the fee being \$50. A license to work shall be for a term of two years from date of application, and may be exactly a few of the selection of application, and may be exactly a paid. Effects of payment of one-half the amount originally paid. Effects of the license of the work may be obtained in the first instance upon the terms above mentioned. The holder of a license to work is critified to a lease of the premises covered by the license on or before the termination thereof. thereof.

tained in the first histance upon the ferms above mentioned. The holder of a heave to work is cuttled to a lease of the first of the fi

#### ONTARIO

Compiled by Robinson & Langford, Barristers, Solicitors, etc., Rat Portage, Ont.

#### CORPORATIONS

LETTERS PATENT OF INCORPORATION.—All companies are created either by special act of parliament or by letters patent issued under the provisions of "The Outario Joint-Stock Companies' Letters Patent Act," by the lieutenant-governor in conned, except railway and insurance companies. The name of the province of Outario or some locality therein must constitute part of the name of every company incorporated under this act.

The applicants for letters patent must for at least four consecutive weeks give notice in the Outario Gazette of their intention to apply for the same, stating therein:

1. The proposed corporate name of the company, which shall not be that of any other known company, incorporated or unincorporated.

not be that of any other known company, incorporated or unincorporation is sought. The object for which incorporation is sought. The object for which incorporation is sought. On the province of Ontario where its operations are to be carried on, with special mention of its chief place of business. The amount of capital stock. The number of shares and amount of each share. The name in full and address and calling of each of the applicants, with special mention of the names of not less than company, with a company of the number who are to be the first directors of the company.

company.

At any time not more than one month after the last publication of the notice, the applicants may petition the heutenant-governor through the provincial secretary for the issuance of the letters patent. The petition must state the facts required to be set forth in the notice, and also the amount of stock taken by each applicant and the amount, if any, paid in upon the stock of each applicant and the amount, if any, paid in upon the stock of each applicant.

cant, and whether the amount is paid in eash or by transfer of property, or how otherwise. In case the capital of the proposed company is \$3,900 or nuder, publication of the notice is not required. From the date of the letters patent the persons therein named and their successors shall be a body corporate and politic by the name mentioned therein.

POWERS OF COMPANIES TO HOLD REAL ESTATE, ETC.—Every company so incorporated may acquire, hold, alienate and convey real estate, subject to any restrictions or conditions in the letters patent set forth.

company so incorporated may acquire, hold, allenate and convey real estate, subject to any restrictions or conditions in the letters patent set forth.

DIRECTORS.—The affairs of every such company shall be managed by a board of not less than three directors, and the persons amond as directors in the letters patent shall be the directors of the company and it replaced by others duly appointed in their references of the company and it replaced by others duly appointed in their after unless he is a shareholder, overlag, and appointed in their first shall be elected by the shareholders in seneral meeting of the company assembled at some place within the province of ontario, at such time, in such wise and for such term, not exceeding two years, as the letters patent or tin default thereof) the bylaxs of the company may prescribe. The directors shall have a such size and for such term, not exceeding two years, as the letters patent or tin default thereof) the bylaxs of the company may prescribe. The directors shall have a such as a such size and for such term, not exceeding two years, as the letters patent or tin default thereof) the bylaxs of the company may prescribe. The directors shall have a such a such shall be a such as a suc

thine confirmed at a general meeting of the company may called for that purpose, shall only have force until the next animal meeting of the company.

Stock,—The stock of the company, shall be deemed personal estate, and shall be transferable in such manner only. The directors may make a by-law for creating and Issuing any part of the cors may make a by-law for creating and Issuing any part of the stock of the property of the stock of the property of the stock, as may be declared by the by-law. No shares of stock shall be transferable until all previous calls thereon have been fully paid in or until declared forfeited for non-payment of calls thereon. Calls.—The directors of the company may call in and demand from the shareholders thereof, respectively, all sums of money by or installments as the letters patent or by-laws or "The Ontario Joint-Stock Companies" Letters Patent Act" requires or allows. Not less than ten per cent, upon the allotted stock of the company shall be called in and made payable within one year from the incorporation of the company; the residue when and as the by-laws of the company direct. The company may enforce payment of all the company direct. The company may enforce payment of all the company directors and called the payment of which renders the company insolvent or or pay any dividends when the company is insolvent, or any dividend the payment of which renders the company insolvent or diminishes the capital stock thereof; but it any director present when such dividend is declared forthwith, or, if absent, then when the company is not director may thereby, and not otherwise, concreta himself from liability. LLABILITY OF DIRECTORS.—Directors of the company shall be intered to the company has been such director and causes such protest to be published, such director may thereby, and not otherwise, concreta himself from liability. LLABILITY OF DIRECTORS.—Directors of the company shall be intensity by and on the respectively, but no director shall be lable to an action therefor unless the

such directors.

FORFEITHE OF CHARTER.—The charter of the company shall be forfeited by non-user during three consecutive years at any one time, or if the company does not go into actual operation within three years after its charter is granted.

LIABLITY OF SHAREHOLDERS. Each shareholder, until the whole amount of his stock has been paid up, shall be individually inable to the creditors of the company to an amount equal to that not paid up thereon, but shall not be liable to an action therefore the company to the company to an amount equal to that not paid up thereon, but shall not be liable to an action therefore returned unsatisfied in whole the against an employing the company to the company that the constitution of the company to the company that the constitution of the company to the company that the company that the constitution of the company that the

ROBROWING POWERS.—In case a by-law authorizing the same is sauctioned by a vote of not less than two-thirds in value of the shareholders at a general or special meeting called for the purpose, the directors may borrow such meeting called for the purpose, the directors may borrow such meeting of the company, and usage both the same at such prices as may be deemed expected or of the company and may self the same at such prices as may be shareholders. The same property of the company such that \$100. The configure or poster the real or personal property of the company of the company is a suma borrowed for the purposes the company of Pedruary in every year, make a list of supplied to full persons who, on the 31st day of December 1 between 1

Every mechanic, machinist, unider, miner, contractor or other person, unless he signs an express agreement to the contrary, unifolding materials for construction, alteration or report of any unifolding concertion, or cereding, formishing or place in machinery along or connection with any building, crimen machinery along or connection with any building, contract mine, has been price of the machinery and uniterials, upon the building, errection or mine and the lands occuping justify the the person therewith, limited in amount to the only justify the the person cuttitled to the lieu. Lieus do not attache so as to make the owner table for a greater sum that to the did proper office within thirty days and action begun within inhery days after completion of building or furnishing of materials or machinery.

building or furnishing of materials or machinery.

MINING.

GENERAL PROVISIONS—The laws relating to mines, mining and mining regulations in this province have been consolidated and are now embraced in "The Mines and the consolidated and are now embraced in "The Mines and the consolidated and are now embraced in "The Mines and the consolidated and are now embraced in "The Mines and the consolidated and are now embraced in "The Mines and the consolidated and are now embraced in "The Mines and the consolidated in the consolidated and are now embraced in "The Mines and the consolidated in the consolidat

occupied as hereinafter mentioned. Crown lands supposed to contain ores or minerals may be sold as mining lands or may when situate within, mining division, he occupied and worked as a mining lands or may may be sold as mining lands or may within townships surveyed into sections or lots, shall be sold in blocks to be called "mining locations." As to mining locations in marroyed territory in the townships surveyed into sections or lots, shall be sold in Beyne and the part of the district of Mipsell and Markawa, every regular mining beating the sold in the shall be districted by the state of the st

in whith, containing 80 acres; or 20 chains square, containing in acceptance of the containing containing containing shall be as may be defined by order in conneil.

Mining locations in unsurveyed territory shall be surveyed by

in the property of the period of the per cent, of the quantity of fand granted. In the foreward, but the ferritory aforesaid there shall be a reservation for route of the per cent, of the quantity of fand granted. In the foreward, maning focations will be an any be defined to the property of the prope

shafts or in other actual mining operations the same sum upon lands leased as is provided shall be expended in case of sales or grants and within the same time, and in default of such expenditure the lease shall be forfeited and become the same time and the same time and the control of the same time and the control of the same time and the performance of all covenants and conditions, become the purchaser of the lands demised to him, and in such ease the sum paid as first year's rental shall be treated as part of the purchase-inoney. If default is made in payment of rent, the lease shall be forteited and become void; but the lesses may default for payment thereof.

RESERVATION OF TRIBERC. The payment of each prevail and so minime of a same and the same and the sole as minime of a same thereof.

RESERVATION OF TRIBERC. The payment of all pine trees to call time of a same time to be the property of Her Majesty; and any person holding a license to cut timber or sawlogs on such lands may at any time during continuance of such lease enter upon such lands and cut and remove such trees. The patentees and those claiming under them may cut and use such trees as are necessary for building, fencing and fuel on the land so patented, or any other purpose sessential to the working of the mines thereon, and hand shall and such tables to the cut for purpose of timber or sawlogs shall be subject

such timber cut for purpose of timber or sawlogs shall be subject

to dues.

STRFAGE-RIGHTS AND MINING-RIGHTS.—Where the mines, minerals and mining-rights are reserved to the crown, the owner of any surface-rights if a patient has not been granted or applied for may make application and shall have priority in respect of such application for a mining lease or grant thereof, upon payment to the department of the purchase-money or rent. Valuators appointed by the director of mines shall settle disputes arising between the owner of the surface-rights and the owner of the

between licensees, and their decisions shall be final. No officer appointed under this act shall have any interest in mining clauss. The licentenant-governor has power to appoint local against to reserve applications for the saile of mining lands in their respective applications for the saile of mining lands in their respective and the saile of the saile of the saile of the saile of the party applying for the same a license, to be called a miner's license. Exery miner's license is all leense, to be called a miner's license. Exery miner's license is all leense, to be called a miner's license. Exery miner's license is all leense, to be called a miner's license. Exery miner's license is all leense, to be called a miner's license. Exery miner's license shall not be transferable. The leense shall be removed to the sail of a fee of S' and the annual rental. Licensee has power personally, and not, librough another, to mine according to the leense.

In the sail of the license of the license of the license shall have the right to stake out within the division mentioned in his license a mining claim on any crown lands into therady licensed, by planting a wooden or iron picket at each of the four corners thereof. Mining claims shall be lead out uniformly and in quadrilateral and rectangular shapes, and the measurement of all such claims shall be horizontal. Inspectors shall keep books for recording mining claims, which books have been prepaid, or the propertion of the sail three divisions of the properties of the sail three divisions of the properties of the sailense of the sailense of the sailense and the result of the sailense which all the case he annual rent thereof has not been prepaid, or if the mining claim remains unworked for the space of three months. Moreon the sailense has been rendered temporarily unworkable, in which case the inspector shall, on the application of the licensee and on the receipt of \$1, make an entry in the book to be kept by whine of the cause or reason for the claim not being worked. The di

#### QUARRYING

There are no special laws as to quarrying in Ontario.

#### OUEBEC

COUFBEC

CORFORATIONS.

GRANTING OF CHARTER.—The lieutenant-governor may, by letters patent, grant a charter to any muniber of persons und loss than five who petition therefor. Such charter ensures that he was a comporate for any of the purposes within the jurisdication of the legislature, except for the construction and working of railways and the business of insurance. Such petitioners shall previously give notice of their intention to make such application by making publication during four consecutive weeks in the Quehec Official Graztir, which notice shall contain:

1. The corporte name.

2. The place of business.

3. The place of business.

4. The proposed amount of its capital stock.

5. The number of shares, and the amount of each share.

6. The name in full, address and cailing of each of the applicants, with special mention of their number, who are to be the Within a mount thereafter the applicants may petition the lieutenant governor for the issue of letters patent; which petition must recit the facts set forth in the notice, the amount of stock taken by each applicant, the amount paid in on the shares of stock, and the manner in which the same has been paid. The aggregate of the stock so taken must be at least one-half of the lotal anoma of the stock of the centers. The person of the lotal capital, unless the total exceeds \$500,000, in which case the total capital, unless the total exceeds \$500,000, in which case the total capital, unless the total exceeds \$500,000, in which case the aggregate paid in upon such excess must be at least two per cent. thereof. The letters patent shall recite all the maternal averments of the petition. The lieutenant-governor may in petition change the name of the company.

GENERAL POWERS—Every company so incorporated may exceed the manner of the company and shall forthwith become and be invested with all the rights, real and personal, heretofore held by or for it under any trust, and all the immunities requisite to carry on its undertaking, and by simple resolution it m

unless confirmed at the next annual meeting, shall cease to have force.

The directors shall be jointly and severally liable to laborors of the company for all debts not exceeding one year's wages due for services performed while they are such directors, respectively; but no director shall be hable therefor miless the company has been such therefor within one year after the debt became due. Straggerichers, and ynumber of shareholden meeting by giving written notice therefor. No stock shall be issued to represent the increased value of any property. The practice commonly known as "watering of stock" is prohibited. The capitalization of surplus carrings, and the issue of stock to represent such capitalization of surplus, are also prohibited. Every form and manner of fettlious capitalization of stock that is not represent such capitalization of surplus, are also prohibited. Every form and manner of fettlious capitalization of stock that is not represented by legit, mate and necessary expenditure in the interest of such control of the control o

DIVIDENDS,—No company shall declare a dividend that is not earned, or which infringes or lessens the capital of the company, Should any dividend be so declared, the directors consenting to

officer, the inspector possesses the jurisdiction, authority, rights and privileges conferred upon any police magistrate, distruct magistrate, judge of the sessions, justice of the peace, sheriff or recorder throughout the whole extent of the territory for which he has been appointed. He may, in general, settle any difficulty, matter or thing arising from the provisions of this law, or any contravention thereof, as well as the regulations made under such provisions.

interior time arising from the provisions of this law, or any control timing arising from the provisions of this law, or any soft provisions.

EXPLODATIONS AND PROSPECTING. Any person, firm or company may prospect for the discovery of mines and mineral import the public lands not aircady or mines and mineral import the public lands not aircady on the may obtain from the commissioner and not aircady or mines and mineral import the public lands not aircady on permit, with the right to make all necessarily for three months, and will cost, if the mine supon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; if the mine is upon private lands, 55 for every five acres; or exploration.

For exercising the approval in the commissioner, to answer for all fosses and damages that mineral interests of exploration.

For exercising the approval in the commissioner, to answer to the surface of a fine and other, 52 per acre; for all other minerals, 55 per acre, 4 mining concession comprises a superficial extent of fifty acres at least, and one immered found in the presence of minerals into such as a fine and acreditable persons establishing that the specimens exhibited eane thereform.

ROADS AND WYFRG ORRESS.—All roads and water-courses upon mining concessions, whether expressly reserved or not in the deed of sale, belong and advanced to the content of the content and creditable persons establishing that the specimens exhibited and the exploration of the surface, and seemity to provide end of sale in the deed of sale is a fine and the content of the surface, and seemity is precised or two years, or violation of the content of

becomes pleno jure until and vold, and the petitioner can no longer work such mine.

Justin 1888.—Owners of mining concessions and holders of exploration permits shall comply with all the requirements of this law. They shall cause to be set up at each corner of their concession a post, distinguished in some way to reach the placed on the line best, distinguished in some way to reach the placed on the line best, distinguished in some way to reach the placed on the line best, distinguished in some way to reach the placed on the line best beautiful to the placed on the line best with the placed in the placed on the line best with the placed in the placed of the posts required by law, which survey shall be made within ten days following the receipt of such notice. The cost of such is destroyed or removed shall be reach and every loss of the owner and the placed of the owner within one month of the norths of January, and of the owner of the owner of the owner of the owner of the placed of the placed of the complex of the norths of January and October of each year the owner of the placed of the pl

affidavit.

QUARTZ-MILLS.—Every person who desires to make use of any mill, other than those worked by hand, within or near any uniting division, for the ernshing or reduction of quartz, or the obtaining of solutions of state of the property of the prope

the payment thereof shall be jointly and severally liable to the creditors of such company for the amount so paid.

Hooks To BE KEET.—The company shall cause books to be kept, in which shall be correctly recorded; i. A copy of the letters patent, and all the by-laws; 2. Names of all persons of every such person; 4. The number of shareses of the every such person; 4. The number of sharese was to every such person; 4. The number of sharese hours, be kept of stock; 7. The names, administ upped on stock; 6. Transfers of stock; 7. The names, administed business hours, be kept open for inspect, and the proposition of the stock of the stock

non-user during three conseembye years at any one time, or it the company do not go into actual operations within three years after granted.

STRCIAL TAMES.—In order to provide for the exigencies of the public service, every incorporated company carrying on any abor, trade or business therein shait pay an annual three for all one-tenth of one per cent, upon the amount appropriate of \$1,000,000, inclusive, and \$25 for each good, or fraction thereof, over \$1,000,000; (b) an additionable of the for each place of business, factory or workshop, in the eithest of Montreal or Quede, and of \$25 for each place of business, factory or workshop, at every other parts and acceptance of the superior of the property of the principal place of business within the company, where and how and the date it was incorporated, during the principal place of business within the principal place of business within the property of the principal place. A failure of the company and the sach deciration renders the company label to a fine of \$200.

METHOD OF WINDING UP COMPANY, Any such joint-stock.

dent, principal manager or chief agent, as the case may be, to a fine of \$200.

METHO OF WINDING UP COMPANY. Any such joint-stock METHO OF WINDING UP COMPANY. Any such joint-stock may be wound up voluntarily whenever the directors of the principal of the state of the principal of the share shollers. If at such meeting a majority, representing not less than two-thirds of the stock, resolve to wind up voluntarily, and business for the purpose of winding up that may collarly any dissolve, then the company shall form up the altars of the company and of distributing up the altars of the company and of distributing state. Notice of such resolution shall be appointed for the purposes ests, and thereupon the shoard of directors shall considered states. Notice of such resolution shall not of the company and of distributing and the liquidators shall also forthwith register a notice of the dissolution in the older of the superior court and in the registry office. Within thirty days after the date of dissolution the judidators shall deposit with the petter had treasurer the amount of all debts and of all displaying the plant mealimed and unpaid, directors and decuments of the company, and also, the sworn accounts and documents of the company, and also, the sworn account submitted to the shareholders.

MINICE

PRIVILEGES OF ALIESS AND RESERVE OF MINICE RIGHTS. Aliens, as well as British subjects, may enjoy the benefit of this party of the selection of the property separate from the soil covering such mines. Mines being crown property, any person discovering the same may purchase it.

ROVALY, A royally shall be levided in favor of the crown upon every mine which is now or may be soil or for the crown upon every mine which is now or may be soil of the crown upon every mine which is now or may be soil or a percentage of three percent, of the crown aliented, and the coverpring soil and silver, which shall be two and one-hall per cent of the gross weight. If the royalty is more party in the delays fixed, a warrant shall issue to the sheriff of the district in which such royalty is due, ordering hum of the mine; and if it is not paid within steed in a state of the sheriff of the district of the production of the mine; and if it is not paid within self-the whole, or a sufficient part of soil of the production of the mine; and if it is not paid within self-the whole, or a sufficient part of solvential party of the production of the mine; and if it is not paid will self the whole, or a sufficient part of exploration permits, for sales of mining encressions, and a plan showing the mining divisions, the mining encressions and the exploration permits.

Approvivation of the officers he deems necessary for the carrival officers are bound to perform the dutter assigned to them by order in council, in addition to those prescribed by this law. The inspector may, with the approval of the encreable of this act, and its their rank and salaries; and all the property and the countiless of the inspector has, with the approval of the constables, who are appointed over the constables, who are appointed over the constables appoint constables, who are appointed over the constables appoint of the commissioner. Said constables have all the province of the interest of Quebec and Montreal, respectively. Every mines of the leutenant-governo

of his mill, and to furnish monthly to the inspector of the mining division a statement, under outh, for each day of the month then last past, together with such other information as the inspector of the heutenategovernor in council may require.

The first control of the conditional governor in council may store that the statement of the conditional power of the condit

with respect to a water-course is liable to a fine not exceeding \$50 and costs, or, in default of payment, to imprisonment for a period not exceeding one month. Any person found removing or disturbing any stake or picket is liable to a fine not exceeding section of the property of the

# MINING LAW AND REGULATIONS

# REPUBLIC OF MEXICO

TRANSLATED FROM THE SPANISH EXPRESSLY FOR THE MINING DIRECTORY

TITLE L. OF MINES AND MINING PROPERTY.

Article 1. Mining property in the United States of Mexico shall be governed by the following rules, which will be enforced by the executive government in accordance with its constitutional

powers:
Art.2: Subject to this law are those unineral substances which
cannot be exploited except under previous concession and those
for whose extraction works are required which may endanger the
lives of the operatives, the security of the works and the stability

for whose extraction works are required which may endanger the loves of the operatives, the security of the works and the stability of the work of the work of the work of the work of the works and the stability of the works, which are the work of the wo

arguired will be that which the minister of public works, secretaria de fomento decrees in conformity with the prescriptions of his law.

Art. 7. Mining property, with the exception of placers or superficial deposits, by inderstood to refer solely to the understood in the conformal of the confo

decision within the peremptory period of eight days, counting from the date of his appointment. The judge, taking into account the opinions of the experts and the proofs which the parties themselves present to him and the proofs which the parties themselves present to him of the proofs which the parties and the amount of the indee shall be executed without further than that of responsibility. If the owner depth of the indee shall be executed without further to be occupied should not give the name of his property within the period of eight days after being under who will represent the interests of said owner. If the possessor or owner of the property which is sought. It is the possessor or owner of the property which is sought. It is the possessor or owner of the property which is sought. It is a mount of the indemnity the sum which the loads in view of the valuation of the eigenfunction of experts and owner, depositing said amount to property to whom it may concern. It. The experts, in making their property which immediately follow and the legal rights of way which are to be established by the judge himself to represent to whom it may concern. It. The experts, in making their valuation, shall take as bases the value of the hand, alamages to the property which immediately follow and the legal rights of way which are to be established by the parties of the hand, alamages to the property which immediately follow and the legal rights of way which are to be established by the said regals free passage, aquebus framage and ventilation, the judges governing thengous the properties, which are called on the care right of the said regals of the following rights of way which are to be established to use as regards free passage, aquebus framage and ventilation, the judges governing thengous him the imposition of careb state and of the foreign and the corresponding free passage through the passage that the object of the farmag

that of drainage, in which case, under penalty of nullity, all particulars referring to passage or transit indicated in the foregoing Clause IX shall be slipinated where they can be benefited by a general drainage tunnel already existing shall be subject to the provisions of Clauses III, VII, VIII, IX and X. XII. The legal right of use for ventilation consists in the obligation of every owner of appurtenances to permit that his interior workings may be communicated with those of proprietors of adjacent properties, to whom the communication produces, as a necessary result, the ventilation which cannot be are communicated with those of proprietors of adjacent properties, to whom the communication produces, as a necessary result, the ventilation which cannot be are compass by penal compact to the contrary, made in a public document by the owners of the property giving and receiving the benefit there shall always be grates located so as to impede passage or transit at the borders of the respective properties. XIV. When a communication, different from that foreseen in Clause XII, effectually ventilates one or more works, that service of ventilation shall give no right to the miner who made the communication works, nor shall asial other proprietors, in their turn, acquire legal right of use which burdens the mining property that furnishes the ventilation, XV. If during the construction of the open work, according to the provisions of Clauses XII, paying ore is found, the prescriptions of Clauses XII, and the shall be a subject to the state of the after preservation of such works shall be for the exclusive and the after preservation of such works shall be for the exclusive account of the party who shall have applied for the legal right of use of the after preservation of such works shall be for the exclusive account of the party who shall have applied for the legal right of use of the after preservation of such works shall be for the exclusive account of the party who shall have applied for the legal right of use to t judicial contention.

Title 11.—Of Explorations, Appurtenances and Mining Concessions.

CONCESSIONS.

Art. 13. Any inhabitant of the regulatic can freely make, upon government lands, explorations leading to the discovery of minematic, these may not exceed ten meters in extent, either in length or in depth. No license will be necessary for said explorations, but previous notice should be given to the respective authority as the regulation provides. No mining explorations can be made upon lands which are private property without the permission cannot necessary for said explorations and the owner or his representative; but mease that permission cannot necessary for said explorations and the owner of his representative; but mease that permission cannot provides, requiring a bond for damages and injuries that may be caused, which the explorer will be obliged to execute to the satisfaction of the authorities after consultation with the owner of the land or his representative. Only by permission of the owner can explorations be made inside of private buildings and their deboundaries of willness or towns, nor in the works, buildings or fortifications of the public nor in their vicinity. The law will fix in all these cases the minimum distances within which said works of investigation can be permitted. During three months, not to be extended, counting from the date of the notice of the permission or of the administrative resolution of which this article speaks, the explorer shad have the sole right of obtaining mining appur-Art. 14. The unit of concession or the appurtenance (perte-

tenances.

Art. 14. The unit of concession or the appurtenance (pertenencia) in the future shall be a solid of unfantled depth, limited above ground by that part of the carth's surface bounded by a horizontal rectangle of one hundred meters on each side and bounded underground by the four corresponding vertical planes. The mining appurtenance (pertenencia) is indivisible in all contracts which are made or oncerning uning concessions or which

The mining appartenance (pertenencia) is univisione in an entracts which are made emerging mining concessions or which affect the ownership.

Art, 15. Saving the disposition in the final clause of Article 13 of this law, the concessions shall belong and shall anways be given to the first applicant and shall embrace, in all cases in which there is sufficient land free from concessions, the number of appurtenances which the interested party may ask for, which number he should always clearly specify, and, in accordance with the provisions of the regulations, the situation which the appurtenances constituting his concession are to occupy in the land. If between the appurtenances granted and others already existing their remain a space of less size than that of the mirt of concession,

this space also shall correspond and be granted in ownership to the first applicant.

TITLE 111.—OF Modes of Acquiring Mining Concessions.

Art. 16. The ministry of state and of the dispatch of public works shall name in the states and territories and federal district the special agents acting for each, before whom shalt be pre-sented the petitions for mining concessions. These agents shall be authorized to charge fees according to the tariff which the said

the special agents acting for each, before whom shall be uthorized to charge fees according to the tariff which the said be authorized to charge fees according to the tariff which the said ministry fixes.

Art. 17. The agents of the ministry of public works shall receive the applications for mining concessions, entering himedral to the proper of practical man whom they appoint; and, providing there be no piposition, they shall transmit a copy of the proceedings and of the plan to the ministry of public works for the proper approval and issuance of the title. The regulations will fix the periods within which these proceedings shall be fulfilled and will detail within which these proceedings shall be fulfilled and will detail the shall enter into possession of the ministry of public works for the proper approval and its small proper of the proceedings, and the tille of property having been issued in favor of the applicant, out necessity of further formality.

Art. 18. Having obtained the approval of the proper disposition of the property having been issued in favor of the applicant of the property having been issued in favor of the applicant of the property having been issued in favor of the applicant to the shall also soon as the term fixed by the regulations of the property having been issued in the proceedings, except in case of opposition; and as soon as the term fixed by the regulations of the property of the property having been delayed.

Art. 18. The agents of the ministry of public works and the ministry of public works, in order that the latter department, after examination, may declare the tardy applicant rejected, if the fault be his, or exact responsibility of the agent if, because of him, the proceedings have been delayed. The tardy applicant of the ministry of public works and poenty reject the apposition is presented by the owner of the soil that of the property of the prope

#### TITLE IV.—GENERAL DISPOSITIONS.

TITLE IV.—GENERAL DISPOSITIONS.

Art. 22. The development of mineral substances, whether belonging to those acquired by concession according to this law or to those belonging to the owner of the substances whether the properties of this law shall dictate respecting the government and security of said developments; but complying with those rules the owners shall enjoy, on the other hand, complete liberty of industrial action, in order to work in the manner which best suits them, pushing, retarding or supending for a greater or less time their labors, employing in them the number of operatives which they wish and at the point which appears to them most opportune, and following, indeed, those systems which they prefer, of use, extraction, drainage and ventilation, according as they judge it most conductive to their own interests. Neverthether, the context of their own interests which they prefer only the conductive to their own interests. Neverthether, the context of the conductive to the conductive to the context of the conductive to the cond

the mines of a locality, to pash to completion drainage tunnels, the execution of these works shall be subject to contract between the interested partles.

Art. 24. Partnerships or companies which are formed for the development of mines shall be governed by the dispositions of the commercial code, except in that relative to associations which are not admissible in mining matters.

Art. 25. The contracts for furnishing sustemance to the miner of partnership, in which case the provisions of the toreoing article shall be observed, or of mortgage. The mortgage in mining matters may be made freely according to the provisions of the civil code of the federal district, but holding in account the indivisibility of the appurtenance established in Article 14 of this law, and observing with regard to registry the provision in the councereial code, for which purpose a special book of mining operations shall be opened. The mortgage can be law of the mine, with precedence of this mortgage.

Art, 25. The mortgage can be divided into mortgage notes to a specified person or to be near, either in the same title constituting the debt or by later document. In every case it shall contain the provisions governing the common representation of the holders of obligations. These provisions, as well as those relative to the amount of the debt, to the conditions of same and to the guarantee, shall be plannly printed on each one of the mortgage notes to a significant of the holders of the mortgage of the scan only bring the results against the debt or the mortgage depreperty by means of a

common representative, whose acts in that which refers to their rights shall be obligatory upon all the holders.
Art. 27. The judgments in the natter consistency of the decided in the federal district and territories, or in each state by the judges and courts which are there competent, in conformity with the provisions of the control code, observing likewise that prescribed in Chapter 1, Title 1, Book 4, of said mercantifecture upon the basis of which the fast cost of administration indicated in Paragraph 2 of Article 1030 of the same code is the payment of the fax.
Art. 28. In one tax which all mining concessions shall return with the exception of those which are expressly example symmetric shall be a federal property tax and a special correlation of the separation of the fax.

Art. 28. Default of payment of the property tax according to the fact of the separation of the property tax according to the fact are separation.

sponding law will establish it. Respecting the other faxes upon ulning, the prescriptions of the law of the 6th of June, 1887, shall be observed for payment of the property tay according to Arty greer/pitions and procedures of the law which establishes it shall constitute, from the date of taking effect of the fastablishes it had constitute, from the date of taking effect of the fastablishes it while the fastablishes it is a state of the fast of the fastablishes it is a state of the fastablishes it is a state of the fastablishes it is a state of the fastablishes it is the fastablishes it is a state of the fastablishes in the fastablishes of the fastablishes in the fastablishes in the fastablishes of the fastablishes in the proximation of the fastablishes of public works, colonization and indistry, which shall have power, in consequence in the fastablishes in the prescriptions of the law, to dieleter of the fastablishes in the prescription of the law, to dieleter of the fastablishes in the specific of the fastablishes of the fastablishes and the fastablishes in the fastablishes of the fastablishes of the fastablishes in the fastablis

provides.
At 1.3. That part of those tunnels which are situated outside AT appurtenances shall remain exempt from tax when they are destined exclusively for ventilation, drainage or the extraction of orewhich do not originate in or proceed from said tunnels.

## TITLE V.- TRANSITORY PROVISIONS

Article 1. Those denouncements\* of mines or extensions which are found in procedure when this law goes into force shall continue and be substantiated and decided according to the provisions of

are found in procedure when this law goes into force shall continue and be substantiated and decided according to the provisions of sine.

Art. 2. Those extensions or spaces existing between unining properties continuous or adjacent and which have not been decided according to the provisions of stages and the provisions of single properties continuous or adjacent and which have not been decided to the first who applies for them.

It is a Those contracts for the exploration and development of mineral zones made with the ministry of state and or the dispatch of public works, colonization and careful and exclopment force at the commencement of the first and exploration in the stage of the commencement of the properties of this law, and in virtue of which the grantion full force and vigor for all the works, they shall be relieved by that of the obstitution of the first and the said contracts impose upon them, the force the mineral and thus, leaving thous, they shall acquire and hold in perpetuity, by grantic properties existing and which are found in operation or in protected inaction at the commencement of the taking decided of this law and its of the payment of the deleral property at the said contracts impose upon them, they shall acquire and hold in perpetuity, by grantic properties existing and which are found in operation or in protected inaction at the commencement of the taking effect of this kaw, although they as shall hold their appartrenances with the boundaries of the payment of the federal property and the purpose of a station between the said and the said contracts and the grantic first the purpose of the said of the payment of the federal property and the purpose of the said of the payment of the federal property and the purpose of the said of the payment of the federal property and the purpose of the said of the payment of the federal property and the commencement of the taking effect of this kaw, although they are, although they have, although they have all they for the purpose of the federal prope

that a mining business be transferred, through whatever title, to a third party, said party shall be responsible for all the charges arising from the contracts referred to, even supposing that from them emanates a sail at the contracts referred to, even supposing that from Art. 6. The contract of the consent of the consent of the owner of the appurtenances.

#### FINAL DISPOSITION

Article 1. This law shall go into force in all the republic upon the 1st day of July A. D. 1892, and from that date the mining code of the 22d of November, 1884, shall stand abolished, as not its supplements, amendments and relative pravisions. Article to the law of the 6th of June, 1887, shall also stand abolished from the date of the promulgation of this law. Mexico, June 4, 1892.

#### REGULATIONS FOR THE ADMINISTRATIVE PROCEED INGS IN MINING MATTERS.

#### CHAPTER L. OF AGENTS

Article 1. The special agents, dependents of the ministry of public works, whom that ministry appoints in conformity with the provisions of Article 16 of the law, in those uning district which in ministry article 16 of the law, in those uning district which in malagnent require the same, shall receive and transport of the many content of the many concessions and extensions are extensions and extensions of the many content of the many content

ne a Mexican entreu in the exercise of His Lights, and not occupy, district respectively.

Art 1. For each goest of public works who is named in a minimal strict respectively.

Art 2. For each goest of public works who is named in a minimal strict of the public shall be named as the amount of business in the district reputers. Said deputies should have the same public of the strict of the same strict of the s

in the 'ministry of public works by mail or by (registron:
Art. 7. The agents of public works must give notice to the public of the place in which they will dispatch infining matters and the hours which they will devote the ministron which his session to be interrupted expension of the ministron and holidays.
Art. 8. The agents shall on have the right to receive any fees recept those which that spectrum or have the right to receive any fees recept those which that spectrum or the agents shall consult the ministry. The agents shall forward to the ministry of public work, within, the first ten days of each month, a detailed report of the applications for mining concessions which may have been precived during the preceding month.

### CHAPTER IL OF EXPLORATIONS

Art. 10. Any inhabitant of the republic can make mining explorations in familisowined by the republic, but shall give in conformity with the act to the respective agent of public works the necessary nest in amplicate specifying in it the limits of the territory to explored. The agent shall return to the explored the proceeding of the notice, after noting upon it the day and in the proceeding of the notice, after noting upon it the day and it is should subject himself strictly to the provisions of Article 13 of the law and of Article 14 of this regulation.

Art. 11. If the exploration is to be made private lands, the explorer shall ask the permission of units or of his representative, who, in case he grains limit give to the explorer a written instrument, string in it the builts of the hand within which the explorer along the processing the confined. Said unstruments shall be presented by the public to the respective agent of put the worker are the true and a put to the explorer after noting upon it the day and hour of its presentation.

tion.

In case of not obtaining the permission of the owner of his representative, the explorer should apply to the respective agent of public works for the same, maning in his application the boudsman whom he proposes. The case, with notice that if he make no contest within fifteen day he will be held to have consented. At the expiration of said supplies the same of the contest of the same of the contest of the contest within fifteen day he will be held to have consented. At the expiration of said recent days the age of the explorer to cover any damages and injuries which may be cur, allowing the term of thirty day for the presentation of the same. The security having been executed, the agent shall give the explorer a written acknowledgment, in which shall be specified the limits of the terratory to be explored.

<sup>\*</sup> Denouncement, in the mining law of Mexico, means that proceeding by which, under the lift law, a local right of possession was obtained to the law of the Mexico.

Art. 13. The agent of public works, during a period of three months, not to be extended, counting from the date of the north-counting from the date of the north-counting from the counting counting can be made shall be one kilometer, counting also from the exterior lines of the works.

#### CHAPTER III. OF THE CONCESSIONS,

CHAPTER III.—OF THE CONCESSIONS.

Art. 15. The applications for concession of mining apourternances or of extensions must be presented in duplicate to the respective agent of public works. They shall express with all clearness the number of appurtenances which are solicited, the situation which they are to have on the land, the location of the land in the numicipality to which it belongs, with the most prominent signs for its identification and the designation of the mineral subagns to the sidentification and the designation of the mineral subagns of the special properties of the sidentification of the sidentification of the sidentification of the sidentification in the sufficient clearness, he shall endeavor to obtain it, interrogating the application in his duplicate and in the record-book of the agency, in the presence of the interested party; except that the inability of the latter to give said explanations, or his reason to a second of the second of the side of the side

decision in each proceeding for concession of mining appurtenances or extensions.

Art. 17. After an application for a mining concession is presented to the agent of public works he shall proceed immediately to register if in the presence of the applicant, registering the day der of the proceeding, both in the margin of the said application and in his duplicate, which he shall return in due course, and also in the special book of record of applications for concession, which he should have paged and authorized by the uninstry of public works. The applications should be registered in the exact order of dates and hours in which they shall have been prescuted, refers the string blank spaces in the book between the divers entries.

In the case of simultaneous presentation of two or

orthon leaving blank spaces in the book between the divers entries.

Art, 18. In the case of simultaneous presentation of two or more applications for concession of mining appurtenances or of extensions upon the same site, it shall be decided by chance, in the presence of the interested parties, which of the petitions must be admitted and registered.

Art, 19. Within the three days which follow the presentation must be admitted and registered.

Art, 19. Within the three days which follow the presentation must be admitted and registered.

Art, 19. Within the three days which follow the presentation place, a practical surveyor, to measure the appurtenances and extensions applied for and draw a corresponding plan, indicating clearly in the same the corners of the appurtenances or extensions applied for and draw a corresponding plan, indicating clearly in the same the corners of the appurtenances or extensions expressed, and also those of the confugious appurtenances which are encountered in a surrounding tract having a radius of one hundred meters. The agent may appoint the expert whom complex with the necessary conditions.

Art, 20. Within the cight days following the appointment of which the preceding article treats, the expert should communicate to the agent whether he accepts the office or not, and in the former case what is already arranged with the applicant regarding the payment of feets. The agent will enter the disease whether the accepts the office or not, and in the former case what is already arranged with the applicant regarding the payment of feets. The agent will enter the disease whether the accepts the office of not, and in the proceeding article treats, the agent shall lik for the expert the period of skxty days, not to be prolonged, for him to present in triplicate the plan of which Article 19 speaks, accompanied by explanatory information, and shall proceed for draw up in the place and abstract to contain the following: I. A copy of the bestract shall be proceeding in the agency. One copy of th

mane. Art. 22. The publication of the abstract, as provided in the preceding article, serves the same purpose as a summons to all those who may believe they have a right to protest against the application for a mining concession.

Art, 23. The agent, upon entering the acknowledgment of which Article 20 treats, shall deliver to the expert a certified copy of his appendiment, which shall conclude with the warning, that who appendiment, which shall conclude with the warning that who has to do shall be held accountable under the penalties established in Article 20 of the penal code of the federal district, or in the corresponding provisions of the laws of the states.

Art, 24. If, in fact, the experts, in the execution of the work of which the preceding article speaks, should encounter resistance, they shall request the aid of the local authority.

Be applicant may make to them, and those also which shall have been or may be made in opposition to the application for a concession, but they shall not express judgment upon the observations, except in the written information of which Article 21 treats, the presentation of which, within the period there fixed, is of the personal responsibility of said experts, to whom shall be charged and the content of the comment of the period there fixed, is offered and the period there fixed, is offered and the period there sheet, and the presented, for either of the following reasons: 1. Dissent of the owner of the soil. 11. Invasion of appurtenances or extensions contiguous. III, Ownership or prior application for the appurenances or extensions solicited, or or a part of them. It is upon the content of the proposed of the same to the application, will give notice of the same to the application, will give notice of the same to the application, will give notice of the same to the application, will give notice of the same to the application, will give notice of the same to the application, will give notice of the same to the application, and the capture of the application, will give notice of the same to the application and part of the respective proceeding, in which due entry shall be made that such publication has been made.

Art, 28. Chiesche applicant the receipt of the information and land of the opponent

disk instance.

Art, 32. It any opposition be presented founded upon a cause diverse to those enumerated in Artiele 26, the agency shall be limited to include the natter in the proceeding without suspending the continuation of the same.

Art, 33. If the opposition should be presented after the receipt of the plan and the information of the expert, but before the expiration of the four months fixed in Section 111 of Artiele 21, then shall be continued in the combact of the case the proceedings the proceedings the proceedings to the continued of the proceedings the termination of the proceedings for thirty-live days beyond the four months, providing the opposition be presented less than twenty days before that on which the said four months would expire.

would expire.
Art, 34. The four months having passed of which Artlele 26 speaks, without there having been opposition, or having arrived what would be the case foreseen by Articles 30 and 32, or the proceeding having devolved upon the tribunals, with exention in favor of the applicant, the agencies under their stricter responsibility and within the fifteen days following shall take out a copy of the proceeding and remit if, with copies of the plan, under registered cover, to the ministry of public works, unless the applicant wishes to be intrusted with the delivery of these documents, in which case the agency shall advise the ministry.

times the applicant wishes to be intrused with the derivery of these documents, in which case the agency shall advise the ministry.

Art 3.

The applicant shall take care to furnish to the agent, in order that he may renit them to the ministry of public work, in order that he may renit them to the ministry of public work, in order that he may renit them to the ministry of public works which be state requires, which shall be returned to the interested party, through the agent, in the event that the ministry, by not approving the proceeding, does not grant the title. If the applicant should prefer it, the shall designate a person who may conveniently present to the ministry of public works the stamps referred to.

Art, 36. Any omission in the presentation of petitions, in furnishing of stamps, in publication, in payment of fees, in attendance at meetings, and in general in whatsoever of the proceedings which this chapter designates, as they may be imputable to the applicants or to the opponents, shall signify, for the former that they have withdrawn their application for a concession, and

for the latter that they have withdrawn their opposition, and in conformity with these pretensions that they have acknowledged the application as validing having been examined in the ministry of notice works and approved by that department, said department, said represent the small proceed to the issuance of the title and to its remission to the agent of public works, in order that he nay deliver it to the interested party, with a copy of the plan, stamped by the ministry of public works, which department shall give to the treasury department a detailed report of the concession granted. If the proceeding should not be approved, the corresponding observations shall be given to the agent, to the end that the faults observed may be rectified within the time that the ministry may signify, provided these faults cannot be imputed to the applicant or the agent, for in that case the proceeding must be in conformity to the provisions of Article 19 of the law.

#### CHAPTER IV.-GENERAL DISPOSITIONS.

Art. 38. The duties which the expert appointed in conformity with Article 19 has to perform shall be executed in such a manner that, by the necessary scientific proceedings, the horizontal length of the sides of the appurtenances and the angles which the same form with the true meritain may be obtained. For this purpose the expert shall determine the magnetic deviation of the compass, in case this instrument is used to measure the directions of the sides. The boundary lines and corners shall be marked by tixed monuments which may be encountered for reference, and the form of the sides. The boundary lines and corners shall be marked by tixed the properties of the sides of t

landmarks should be constructed in accordance with that which is prescribed in Article 41.

Art. 30. The plans of the appurtenances shall be drawn correctly and with neatness, upon strong paper, for the preservation of sald documents. Copies may be taken therefrom on tracing cloth. The scales shall always be deemaal and proportioned to the object of the plans, containing also the lengths of the sides in meters, the directions of the same with relation to the true metridian, the dip of the compass used, with the date upon which meters, the directions of the same with relation to the true metridian, the dip of the compass used, with the date upon which are strongly and the same of the land, to role to acquire by purchase, within convenient time, that part of the surface which he needs for the same surveyed for the appurtenances, in the case of placers or otherwise procure the same by appropriation, for the companion of the same surveyed for the appurtenance the same by appropriation, for the prescriptions of Article 11 of the law.

Art. 41. The landmarks should fill the following requirements: 1. They shall not be changed in position, for, being destined to designate points essentially urcariable, as long as the limits of the appurtenances or concessions which they mark be not modified, they shall be constructed solidly and shall always be preserved in good condition, making upon them such repairs as shall be necessing. If they shall be located in mumber and position one can be seen from each, and in form, color or some other character should be distinguishable from those of the adjacent appurtenances.

appurtenances.

appartenances.

Art. 42. The owners of mining concessions cannot go outside
of the boundaries of the same (according to the provisions of
Articles of the law), everythem there is free land and previous
application for extension before the respective agent of public
works, who shall conduct the proceedings on the same terms and
with the same requisites as those which are established in this
regulation for mining concessions. The same proceedings shis
regulation for mining concessions. The same proceedings shis
regulation for mining concessions. The same proceedings shis
regulation for mining concessions.

of pursued in the numerance or applications for reclination of appuritional examiners, a substances commercated in Article 3 of the Article 3.

Art 4.3. Art 4.5. Article 4 without previous concession, and, therefore, no labor will be permitted in mines or placers of suits substances, which are not found protected by a legal title, duly guistered. Consequently no labor will be permitted; either open to the air or subterrancous, which has for its object the future exploitation of any of the substances mentioned.

Art 4.4. Every application for concession to exploit any of the Art 4.4. Every application for concession to exploit any of the coording to Article 4 of the same are for the free exploitation of the owner of the soil, shall be rejected.

Art 5.1. In order to obtain the legal right of use referred to in Section IV of Article 12 of the law, the application for the license shall be presented to the respective agent of public works, accommend by as much of the horizontal projection and profile cuts and details, as are believed necessary to libratical terms and elementances of the projected work. The agent shall render to the ministry of public works, together with the application and corresponding plans, a report upon the matter, also giving his opinion. The proper minister, in view of the said documents and render his decision.

render his decision.

Art. 46. The owner of appurhenances which would be benefited by a legal right of use, who does not obtain the consent of the owner whose property would be burdened by the same, shall apply to the uninstry of public works, in conformity with the provisions of Section XIX of Article 12 of the law, accompanying the application with all the necessary data. The uninstry, in view of the report of the respective agent of public works, and previous hearing granted to the dissenting party, or to his representative, shall render his decision within the time which he shall designate, in accordance with the circumstances of each case.

Art. 47. If he who solicits it or he who ought to grant the right to which is referred in Section X1X of Article 12 of the law does not agree with the decision of the ministry of public works, he may appeal to the respective judge, provided he does so within a time which does not exceed two months from the date of the administrative decision.

Art. 48. In those parts of the republic which are not included.

administrative decision.

Art, 48. In those parts of the republic which are not included within the jurisdiction assigned to an agent of public works in the branch of mining, the applications for mining concessions, as also the notices and instruments granting permission of exploration, shall be presented to the postmaster, who shall note upon the application, or the notice, or the instrument of permission of exploration, the day and hour of the presentation, and shall give immediate notice to the ministry of public works by mail, and by telegraph, if there be one.

Art, 49. The postmaster can only receive and note the applications for concession, and the notices and instruments granting permission of exploration, to which the preceding article refers, in ease that the place of his residence is outside of the jurisdiction of any agent of the ministry of public works in the branch of mining.

of any agent of the ministry of public works in the branch of mining.

Art. 30. The ministry of public works shall publish every six months in the Diario Oncoat, the federal official paper, the notice of the titles of mining property Issued during the said semester.

Art. 3. The special book, of which Article 25 of the law treats, merical code, being governed in its conduct by what that code ordains in its Chapter II, Title 2, Book 1.

Art. 52. It is the right of individuals to register titles of future concession, or of existent ownership, in the commercial record, as permitted by Article 25 of the mercantile code, wherever the proper registry book is not kept.

Art. 53. Registration is oblogatory upon mining corporations and upon creditors of mines, in conformity with Article 25 of the analysis of the conformity with Article 25 of the capital of the province or judicial district, both the location of the mining appurtenances and the office or offices which the contain any other canes, there should be any doubt about the place in which the registery should be made in conformity with the prevence in the company lass in the republic.

Art. 55. It, through the extension of appurtenances, or through any other canes, there should be any doubt about the place in which the registry should be made in conformity with the prevence of public works will determine the same, communicating his decision to the minister of the treasury.

#### CHAPTER V. TRANSITORY DISPOSITIONS.

(Applying only to the taking effect of the new law of 1892.)

Applying only to the taking effect of the new law of 1882.)

Art. I. The agents shall receive, as per strict incentory, the proceedings which exist in the offices of the mining deputations, or in those offices which have excresed their authority, and to all unfinished proceedings they shall give due course in conformity with Article I. Tille V, of the law.

Art. 2. Every denouncement which is found in the course of publication shall be posted upon the bullet heboards, after which the agency shall comply with the provisions of Articles II and 29, then in the official periodical to which Article 21 refers.

Art. 3. In those proceedings of denouncement in which the publications have afrecally been made, but in which the expert has not yet been named to measure and survey the appartenances, the agencies shall proceed, without making new registry of the denouncement, as in cases of new applications for concession, the same application have not yet been presented by him, the agencies, without making a new registry of denouncement, and passing upon the expert named, shall proceed in like manner as in new applications for consession.

registry of denomicement, and passing upon the expert named, shall proceed in like manner as in new applications for concessions.

Art. 3. In those cases of denomicement in which the plan and information have already been presented, the agencies shall proceed to the process of the plan and information have already been presented, the agencies shall proceed to the process of the case. It. A copy of the application with a clear and precise specification of the name and residence of the denomicer, and the register number of the case. It. The information of the expert. III. Notice that a period of two months, not to be extended, counting from the date of the abstract, will be open for the substantiation of the proceeding in the agency. The agents shall give to these Art. 8. In those cases of denomicement in which opposition has already arisen, but in which the plan and information of the expert law not yet been received, the provisions of Article 27 shall be observed, and the provisions of Articles 28 to 32 in the cases to which the apposition and the expert's plan and information already exist, as also in and the expert's plan and information already exist, as also in and the expert's plan and information already exist, as also in and the expert's plan and information already exist, as also in the cases to when they apply the provision of the provision provided in the Articles 28 to 32, the agencies in this case taking advantage of the thirty-five days of extension extablished in Article 33.

Art. 8. The dispositions in Articles 28 to 32 shall also be observed in those cases of denomicement which are encountered in the uniting code of the 22 of November, 18st. The agents as administrative authorities to not have the power of receiving and passing upon proofs in the same manner and spirit as the courts. Art. 9. The two months having passed, of which Article 5 of these transitories speaks, without there having been any opposition, or any other events forces the power of receiving and passing upon proofs in the same

TARIFF FOR THE PAIMENT OF FEES TO THE AGENTS OF THE MINISTRY OF PUBLIC WORKS IN THE BRANCH OF MINING.

TARREP FOR THE TAYMENT OF FEES TO THE AGENTS OF THE MINISTRY OF PUBLIC WORKS IN THE ERRANCH OF MINING.

1. For the annotations in the notice or in the permission of exploration, to which Articles to and 11 of the ordinance for the administrative proceedings in the branch of mining refers, and for the corresponding registry, \$1.

11. For the proceedings and the issuance of the permission of exploration to which Article 12 of the said ordinance refers, \$2.

11. For the proceedings and the issuance of the permission of exploration to which Article 12 of the said ordinance refers, \$2.

11. For the registry of each application for a mining concessor of the exploration of the evidence and certificates, and for other copies, at the rate of s1 for each hundred lines or fraction thereof.

14. For the transcription, collation and authorization of the evidence and certificates, and for other copies, at the rate of s1 for each hundred lines or fraction thereof.

15. The same of proceedings or whatsoever other documents from the record, \$1. When the interested party does not furnish sufficient data, and he has to register corresponding documents for more than one year, \$1 for each year which is registered.

registered.
V11. For each kilometer of a journey, and for each one of the return, which is traveled in the transaction of any business, 25

return, which is traveled in the transaction of an ecents.

VIII. For an ocular view or exterior examination, rendering the corresponding information; 55.

IX. For the inspections, visits or examinations in works below IX. For the inspections, visits or examinations in works below IX. For the inspections, visits or examinations in works, and 55 for the corresponding information.

X. For attendance at meetings which do not exceed one hour. St. and for each hour additional or fraction thereof, \$t.

Liberty and Constitution.

Mexico, June 25th, 1892.

#### MINING TAX LAW OF JUNE 6, 1892,

Article 1. In accordance with the provisions of the articles relating to the new mining law, there shall be established a fed-eral property tax, which shall consist of two parts; one part, which has to be paid once only, in stamps to be affixed to all titles of mining property, and the other part, which has to be paid annually, for each one of the appurtenances of which a concession is composed.

econposed.

As regards the tax, the appurtenance or unit of concession shall be the one established by Article 14 of the new mining law. Consequently all oid and new appurtenances existing in the republic, whatever be their extent, shall be valued according to this unit.

For the fractions of appurtenances that amount to one-half or more, the tax shall be paid as if they were whole appurtenances, and nothing shall be paid for the fraction that is less than one-

half.

Art. 2. Every owner or actual proprietor of mines, whatever title he may have, shall be obliged to present his documents to the office of the treasury which the regulations of this law may determine, within the time, not to be extended, counting from the taking effect of this law to the sist of october of the present year, so the title and account taken, collected the mines may be affixed to the title and account taken, collected the mines may be affixed to the title and account taken, collected the title half account taken, collected the title the time of appurtenances which form the property, a corresponding register being opened for this purpose.

The titles which, in future, the maintry of public works will extend in accordance with the new mining law must bear the stamps corresponding to the same. These stamps shall be furnished by the party receiving the concession and shall be in propertion to the appartenances which the concession contains, under the present year, the concession of the property, one for each appurtenance of ten thousand square meters. The rule established in Article 1 to be followed as regards the fractions.

These stamps have to be canceled by the officer of the treasury authorized to receive the titles which were extended up to the soul of the present year; the unitistry of public works canceling those belonging to the titles which are extended in Article 1 to the object to the present year, all owners or proprietors of mines shall be obliged to pay the sum of \$10 animally tor each one of the appurtenances of which their concessions are composed.

The amount of the tax shall be the same, whatever is the nature. Art. 2. Every owner or actual proprietor of mines, whatever title

The amount of the tax shall be the same, whatever is the nature of the substance which is being worked, in the understanding of the substance which is being worked, in the understanding that the mine has been a cquired through denouncement or by special concession before the date on which the new mining law takes effect, and that in future it shall be acquired by concession and tille in accordance with the new law, asyment of the annual contribution on appartenances and of the stamps on the titles contribution on appartenances and of the stamps on the title contribution on appartenances and of the stamps on the title of the contribution on appartenances and of the stamps on the title of the property, which have been expressly freed from the same by contracts, ande with the executive government in virtue of the authority given by the legislature and approved by the same. This exemption shall only last for the time stipulated in the contract, and no extension of time will be granted. By a part of the advance payments during each fiscal year, this payment to the made during the first month of each one-third part of a year, is made determine, and to which the taxpayers are obliged to go in order.

In Mexico a year is divided into three parts of four months each, in-stead of quarterly as in the United States.

to make their payments without further need of notification or any other requisite on which they might found delay or excuse.

Art. 6. Failure of presentation of the title which secures the possession of the mine within the time fixed in Article 2 shall be punished by a fine equal to the amount of the stamps which the full has to bear, if the same be presented within the two months following the expiration of the time allowed. For every two months more that the presentation is delayed, the holder shall notifie more that the presentation is delayed, the holder shall be more that the presentation is delayed, the holder shall reduce the same that the presentation is delayed, the holder shall be the concealment of the number of appurtenances shall be punished with a fine equal to double the amount of the stamps which the title ought to have borne for the concealed appurtenances, to which shall be added double the amount of the annual tax for the whole of the time the same has not been paid. This shall not interfere with the eight or erimant responsibility to which the concealer is liable and to which he may be subjected in due time.

Failure to pay the annual property tax within the first month a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amounting to fifty per celluli cause the owner to incur a fine amount of the time of the stamp ship to the stamp to the stamp to the sta

Art. 8. In case it no longer suits any person or company to con-tinue working the inne or mines which he or it may possess, the respective office of the treasury shall be advised in writing, so that the tax may be settled up to the date of the notification and the corresponding annotation be made in the register.

## REGULATIONS OF THE MINING TAX LAW OF JUNE

#### TAX UPON MINING PROPERTIES.

TAX UPON MINING PROPERTIES.

Article 1. The tax established by this law is applicable to the numing properties now existing or which may hereafter be authorized by the ministry of public works in conformity with Article 3 of the law of the 4th of the current month. The mining properties defined in "Sections III and IV of Article 1 of the mining code of November 22, 1884, are, in so far as refers to taxes, not subject to the present law, being lable only to that dated June 6.

Art. 2. The tax upon titles shall be paid by affixing to the law deed of transfer that may be presented by the interested party the corresponding amount of document and book stamps in contently with Article 3 of the law, the same to be canceled as therein prescribed.

Art. 2. The tax upon titles shall be paid by affixing to the lax therein prescribed.

Art. 3. The tax upon titles shall be paid by affixing to the lax therein prescribed in the content of the present halders of mines comprised in the content of the present halders of mines comprised in the content of the present halders of mines comprised in the content of the present to the proper agent of the treasury in the states or the territories within a term which shall not be extended, expiring on the state of tother of the pupilicable; I. The original titles of possession, pursuant to Article 4. Section VI, of the ordinances of May 22, 1783, and Article of the mining code of November 22, 1884. It. The last deed transport the mining code of November 22, 1884. It. The last deed transport in the state of the mining of the mining code of November 22, 1884. It is the detail the name and place of residence of the original denomineer. 111, A declaration in duplicate under oath, which shall express in detail the name and place of residence of the overal present of the state of the law clied and is of that of June 6, 1892.

Art. 4. The presentation of the titles referred to the content with the last measurements, expressing whether these are convention to the titles referred to in the foreca

\*Extract from Article 1 of the mining code of Nov. 22, 1841-Sec. 111. Metallargical works and sites for their erection, including under the first designation all industrial establishments of mining in which by any kind of process are extracted some of the substances con-the two foregoing sections of this article: I'the said substances are the same as specified in Article 3 of the new law.—TRANSLATOR!] Sec. IV. The waters extracted from the mines and those that may be needed for drinking by workmen and animals, for motive power or for any ofther use in mines or metallargical works.

Art, 8. As provided for in Article 6, should the department find the declaration to be exact, it will return the titles to the proper agent of the treasury in order that he may deliver the same to the interested person and certify upon the duplicate retered to hardely be found and the title that has been publicated and the second of the following the proper stamps and the declaration of the interested party exact, it shall determine the number of appurtenances for which the proper stamps must be paid. Art, 10. Within three days subsequent to the notification to the interested party, in the event provided for in the foregoing article, the latter shall manifest whether or not be conformed partment, it being understood that his neceptation thereof will be taken for granted should notice to the contrary not be received within the term indicated.

taken for granted should notice to the contrary not be received within the term indicated.

Art. 11. Should the party in interest not be satisfied with the number of appurterances determined by the treasury department the latter shall designate an expert, who, with the documentary proceedings in his possession, will make an examination of the property and mineral possessions, presenting within a term of torty days a report thereon which shall be employed by the said department as a basis upon which to render a definite decision in the matter.

department as a basis upon which to render a definite decision in the matter.

Art. 12. Basing the same upon the report made by the expert appointed, the treasury department will render a definite decision in the premises, returning the proceedings to the proper agent of the treasury, where the stamps corresponding to the amount lacking will be duly affixed and a memorandum made of the dupleted decleration. In the event of cause existing therefor, the conformity with Clause 11, Article 6, of the indicata uniformless in conformity with Clause 11, Article 6, of the indicata uniformless the proper stamps, it will render to the treasury department the information prescribed in Article 3, of the regulations of June 25, 1822.

information prescribed in Article 37 of the regulations of June 25, 1892.

Art. 11. The grantees of mineral zones not desiring to avail themselves of the privileges conceded to them by the second part of Transitory Article 3 of the law of the 4th of the current month of Transitory Article 3 of the law of the 4th of the current month of the control of the present regulations, and in which they will also state cle 3 of the present regulations, and in which they will also state the date of their respective concessions and whether or not they have incorporated within the limits of such zones inmeral appurtenances distinct from those conceded by their contracts.

Art. 15. The treasury department, in view of the decelaration field with it in conformity with the prescriptions of the preceding article, will request a report thereon from the department of pulse works, rendering its dieckion in accordance with the information communicated by the latter department, and issuing to the invariant of the provisions of the final paragraph of Article 1 of the law dated the 6th instant.

Art. 16. For the same purpose, the grantees of zones who may hereafter incorporate within the limits of such zones appurtenances different from those conceded by their contract are equired to present, within eight days subsequent to that on which they receive notice from the inhistry of public works, that such incorporation has been accepted, a declaration in duplicate to the treasury department, which latter department will issue the certificate provided for in the foregoing article.

ANNI M. TAN.

#### ANNUAL TAX

Art. 17. The annual tax referred to in Article 4 of the law will be deducted by the slamp offices in accordance with the laws of March 31, 1887, and December 2, 1891, and such others bearing thereon now in force, and is payable in interior rent stamps, the face there is to bear an imported, diagonally placed thereon, read-face there is to bear an imported, diagonally placed thereon, read-

there thereof to bear an imprint, diagonally placed thereon, reading, "Mining tax,"

Art, 18. The stamp officers will receive, as sole fee, two per cent, of the gross amount realized from the sale of stamps for the payment of the annual mining tax.

Art, 19. The stamp officers will keep a register of the mines situated in their respective districts, by aid of the data which the treasury department will furnish for that purpose.

Art, 20. The owners or holders of mines will make their payments in the principal or district sub-tax office corresponding to that in which such mines may be located; the treasury department, however, may modify this rule in histances where it may be ment, between the and convenient to do so, in such cases advising the general collection of the proper tax of the other properties.

Art, 21. The principal stamp officers will remaine the subsulfices statusted.

Art, 21. The principal stamp officers will remaine the subsulfices.

to the proper Gay office of the district within which the mine is situated.

Art, 21. The principal stamp officers will require the sub-officers or agencies to forward them opportunely the stubs of the stamps sold for each mine affixed to pages on which they will state for the safe or the safe per substantial of the safe or responds to the each property detailed on the titles and indicated on the dapheate thereof returned in accordance with Articles and 12.

On receipt of these pages or sheets by the principal stamp officers, they will communicate the fact to the treasany denart ment, to which they will also forward, at the end of each liseal query all such stamped pages or sheets received, corresponding to each stamp and the stamp of the previous to July 21st, November 30th and March 31st of each year. For this purpose the respective principal or substamp office will deliver to interested parties a printed ticket or placard containing: 1. The title or heading "Minightax," H. The name of the state and municipality in which the office issuing the teket or placard may pertain. 111. The mane of of the state and municipality in which the same is located; name of

owner or company which may be in possession thereof, and the registry number of the titles. IV. The amount payable for each third part of the year. V. Three blank columns destined to recive the stamps corresponding to each third part of the year, which stamps are to be duly canceled.

The interested parties are required place the ticket or placing. The interested parties are required optice the ticket or placing the payment and the part of the office of the management or owner of the mining properties, with the stamps accreding the payment affixed thereto.

Art. 23. Upon any tax payment becoming due, as provided for in the foregoing article, and upon the stamp office being advised that such payment has not been satisfied, it will communicate the fact to the agent of public works, in order that the latter may the fact to the agent of public works, in order that the latter may the fact to the agent of public works, in order that the latter may though in Article 24 of the regulations of dune 25, 182, which notioned in Article 24 of the regulations of dune 25, 182, which includes a superior of the saw of the 4th instant. The payment of the tax by these creditors cannot be effected until the notice referred to has been placed upon the build-in-board of the agency of public works to which the proceeding article can be given, the said principal stamp office will notify the creditors of the mines through the respective district court, ascertaining previously in the proper connected are gestry office the names of such creditors.

Art. 25. Upon the expiration of the terms referred to in the first of the payment of the respective district court, ascertaining previously in the proper connected are gestry office the names of such creditors.

Art. 25. Upon the expiration of the terms referred to in the first of the payment of the referred to the the payment of th

pose of the mine. This ruling will be published in the Diario Inclaid.

Art. 26. The notice prescribed in Article 7 of the law will be made in writing, by the party in interest, to the principal stampoline through the proper best sub-office or agency. The principal stampoline through the proper best sub-office or agency the principal stampoline through the proper best between the read for entry in the register.

Art. 27. The notifications referred to in Article 8 of the law will be made also as prescribed in the last preceding article. The principal stamp office will transmit the same to the treasury department, that the latter may make entry thereof in the register and order their publicationin the Diario oneial, and effect the recessary liquidation, which it will communicate to the proper stames, the amount which may be due the petitioner.

Art. 28. The grantees of zones referred to in Articles 14 and 16 of this law are required, within the first ten days of the besal year, or communicate with the treasury department, that the latter, while in possession of the documents mentioned in said articles, may issue the voucher excepting them from payment of the annual mining tax during the current fiscal year.

TRANSTIGNT PROVISION.

#### TRANSPIORY PROVISION

For the present year only, the payment of the tax Installment maturing in July next will not be required in that month, but can be made in any day during the months of August, September and Detoler; or the two installments which will mature on the 30th of November next may be effected together previous to that date, Mexico, June 30, 1892.

#### EXPLANATORY CIRCULAR NO. 19.

EXPLANATORY CIRCULAR No. 19.

With the object of obviating any differities that might arise in different localities of the national territory in complying with the provisions of Articles 3 and 5 of the regulations of June 30th last of the midina tax has, owing to the distance at which mining offices and to the different considerable of the control of the middle of the trace of the control of the control of the trace of the control of Mexico, August 15, 1892

#### MINING TAX LAW OF JUNE 6, 1887.

Article 1. After the promulgation of this law the mines of stone coal, of all varieties; those of petroleum and those of rorm and quicksilver and the products of the same; national iron, wroughf or card, in fods, burs, pigs, wire, beams or rais, national ores, whence it is extracted, shall be free from all federal, local and municipal taxes, except stamp taxes.

Art. 2. Throughout the interior of the republic the circulation of gold and silver, whether in the ore, massive or coined, that of all their products of the mines, shall be free from all excise duties, toll duties and from all other insposes, by whatever name they may be called.

Quicksilver of whatever origin shall be free from all

Art. 3. Quicksinvi of windever origin start be free from an charges, of whatever kind they may be.

Art. 4. Such mines as are not excepted in Article 1 and the products thereof shall only pay one single tax, in addition to the federal tax on coinage, which shall be computed upon the value of the ore or of the substances that may be exploited, without deduction of the expenses, and which shall never exceed two per control shall value.

of the ore or of the substances, that may be exploited, without deduction of the expenses, and which shall never-exceed two per cent, of said value.

Art, 5. The tax spoken of in the preceding article shall belong to the state in which the mine may be situated, or to the federation of the state in which the mine may be situated, or to the federation of the state in which the mine may be situated, or to the federatic the territories. For this reason the amount thereof, within the limits that are here designated, shall be fixed annually by the interpretation of the states, or by the congress of the states, or by the congress of the mine may be a considered to the mine and to the protection that should be accorded to mining.

Art, 6. Metallurgical works or shops of any kind, when they are situated or to the believing of the speciment of the state of the state of the real estate and the machinery.

Art, 7. As is already established, the federation shall receive the federal twenty-sive per cent, of the taxes, which, according to the foregoing articles, are to be levic by the states, even to it, except that of stamps, upon the extraction, production or profits of mines, upon the amount of ore treated, the production or profits of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of ore treated, the production of mines, upon the amount of the production of the production of

of the shares that relate to them, is absolutely promoted by this present law.

Art. 3. It is forbidden to the states to levy taxes on denouncements, possessions and other formalities necessary for the acquiring of mining property and of metallurgical works, or upon the organization of mining companies and the issuance of the stock or

bonds thereof

organization of mining companies and the Issuance of the stock or bonds therein.

(Article to has been abodished by the law of 1892.)

Art. 11. During the term of ten years all establishments for Art. 11. During the term of ten years all establishments for the stock of the stock of the term of the present and federal taxes, except the stamp tax. In order to enjoy this exemption, such establishments must subject themselves to the conditions that will be fixed in the regulations relative thereto. Art. 12. The executive is authorized to contract with railroad companies for the reducing of freight charges upon the national products intended for exportation according to the following conditions: a. The executive shall annually designate in the budget the quantity of money necessary to pay the sum that the companies are to receive for the services they may render according to this article. b. The ministers of the treasury and of public othis article. b. The ministers of the treasury and of public oths article. b. The advantages that are concelled to them. c. Such paroducts for exportation as are destined to enjoy the said reductions shall be divided into four classes, in which, according to the importance that they may continue acquiring, the executive shall place them every two years, publishing the said classifications with due auticipation.

LAW OF JUNE 6, 1887.

AUTHORIZING THE PURCHASE OF A PROCESS FOR BENEFICI-ATTNO ORES.

Article I. The executive is hereby authorized to acquire, by a contract of purchase or of use a pricess for the hereficiation of ores that shall expecially apply to those of gold are believed in the treatment shall not exceed two per cent, of the contents of gold or silver in the treatment shall not exceed two per cent, of the contents of gold or silver in the ore. II. The cost of the treatment shall not exceed \$3 for every ton of ore. III. The cost of the machinery and apparatus to treat one thousand tons of ore per month shall not exceed \$5,000,

and apparatus to treat one thousand tons of ore per month shall not exceed \$5,000.

Art. 2. The executive is equally authorized: 1. To concede an especial patent for any term, up to twenty-five years, to the inventor or enterprise that shall plant the said process in this country. It. To concede to the same parties the introduction, free of duties for the time that the patent may last, and with the initiations, of the following articles: a. Materials that are to initiations, of the following articles: a. Materials that are for the relaboration of the reagents that may be used in the process. c. The reagents that are employed in the beneficiation, but the following articles: a successary for the needs of the process, according to the estimate previously made by the enterprise and approved by the ministry of public works. All such importations shall be subject to the rules and finitiations that may be laid down by the secretaries of the treasury and of public works. III. To concede to the enterprise an exemption from all taxes except the stamp tax, during the twenty-five years, for all the capital that may be invested and for the prediction of the necessary reagents.

Art, 3. To agree with the enterprise as to the highest royalies that it can charge for the use of its process, taking for a basis the economy that may be occasioned thereby.

economy that may be occasioned thereby.

that it can charge for the use of its process, taking for a basis the economy that may be occasioned thereby.

Art. 4. At the time of granting the patent and of conceding the exemptions to which the preceding articles refer, the executive shall have power to stipulate that the treasmy shall receive a certain percentage, that he may consider just, of the royalties that the enterprise may read the form or persons as may make that the enterprise may consider that persons as may make that the treasmy of the rown account and for the account of other parties.

Art 5. The executive will be careful to stipulate: 1. That the apparatus and machinery shall be made in this country. It That the criterials shall sell the same to any person who may solicit them for use in this republic, at a price not to exceed that mentioned in Arthele 1, and with the understanding that the cost of treatment and the loss of the precious metals shall not exceed that designated in the same article, under the guarantee of the enterprise. 1H. That the enterprise shall not charge for the use of the process, to anyone who may whish to employ it in this country, any royalties except those designated in the contract.

Art, 5. In case that the executive acquires the process by a contract of purchase, he must submit the same to the approval of congress.

of congress.

## LIST OF

# MINING COMPANIES AND OPERATORS

IN THE

## UNITED STATES OF AMERICA

(SEE ALSO SUPPLEMENTARY LIST, PAGE 447)

## **ALABAMA**

	ALADAMA
	CŌAL-BITUMINŌUS
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TOES OF 2,001 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVESS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	COAD DECARRO, CARREDO, COAR OTERNO, AND ABILE OF MARE OF TRAILEDIEST.
Adger "Jefferson Ry, 408.	De Bardelchen Coal & Iron Co., Bessemer, Ala. H. T. De Bardelchen, prest., David Roberts, vprest.; Andrew M. Adiger, seek, and treas. Cap. stk. \$10,000,000. Henryellen. Slopes, 146,535 tons; steam; 280 coke ovens, capacity 169,550 tons. L. W. Johns, supt.
Aldrich Shelby Ry, 240.	Montevallo Coal & Transportation Co. W. F. Aldrich, prest, and mgr., J. L. McConaughy, treas, and seey. Cap. 8tk, \$200,000. Montevallo. Slope, 40,000 tons, steam. W. F. Aldrich, supt.
AlexanderCity,Tallapoosa Ry, Gadsden 240, 408.	O, Christopher, Gadsden, Ala. Little Gem. Slope, 6,000 tons, steam. Alf, Rolands, supt.
Birmingham Jefferson Ry, 240, 280, 351, 408, 422, 622.	Eclipse Coal Co. John F. Renfro, prest, and mgr., Howard G. Crowder, seey, and treas. Cap, \$20,000. Eclipse. Slope, 79,000 tons. steam. Thomas Å. Buffer, supt.
Blocton, Bibb Ry, 240, 108,	The Cahaba Coal Mining Co. T. H. Aldrich, prest, and treas,: John Grote, seey., Cornelius Cadle, vprest, and mgr. Cap. stk. \$1,600000. Six mines. Slope, shaft and drift, 750,000 tons. steam, washer; 467 coke overse, capacity 150,000 tons. P. B. Thomas, supt.
Blossburg, . deflerson Ry, 622.	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest., W. L. Sins, seey, and treas; H. W. Perry, ingr. Cap. 8tk. 83,500,000. Blossburg. Open pit, drift, 250,000 tons; steam, horse; breaker. C. F. Beddon, supt.
Brookside "Jefferson Ry, 622.	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest.; W. L. Smis, seey, and treas., H. W. Perry, mgr. Cap. 8tk, \$3,700,000. Brookside. Open pit, drift, 250,000 tons; steam, horse; breaker. C. F. Beddon, supt.
Brookwood Tuscaloosa Ry, 40s.	The Standard Coal Co. H. L. Einshen, prest., T. M. Jackson, seey., treas, and mgr. Cap. stk. \$500,000. Drift and slope, 300,000 tons; steam, horse, washer, 202 coke ovens, capacity 85,000 tons.
Carbon Hill Walker Ry, 351.	Carbon Hill and Lost Creek Coal Co., J. W. Shepherd, prest., E. Bynon, seey.; J. W. King, treas, and mgr., Cap. 8tk, 815,000. Shaft, drift, steam. E. Bynon, supt.
**	McDonald Coal Co. F. A. Gamble, prest.; Daniel McDonald, secy, and treas.; John McDonald, mgr. Cap. 8tk, \$50,000. Shaft, 350,000 tons; Steam. John McDonald, supt.
54 , H	Morris-Goss Mining Co. R. U. Goss, seey, and treas., O. R. Morris, mgr. Cap, 8tk, \$15,00). Maner and Ethel. Slope, shaft, 100,000 tons; steam.
Cardiff Jefferson Ry, 622,	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest.; W. L. Sims, seey, and treas., H. W. Perry, mgr. Cap. 8tk. 85,00000. Cardiff. Opengpit, drift, 250,000 tons, steam, horse; breaker. C. P. Beddon, supt.
Clements Depot Ry. 6. Tuscaloosa	Gould & Son. Wm, A. Gould, prest., seey, and treas.; Thomas J. Gould, mgr. Cap. stk, \$50,000. Gould's, Shaft, 144,000 tons; steam. Wm, J. Gould, supt.
Coalburg , Jefferson Ry, 622,	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest.; W. L. Smis, seey, and treas.; H. W. Perry, mgr. Cap. 8tk, 84,500,000. Coalburg. Open pit. drift, 250,600 fons; steam, horse, breaker; 732 coke owens. C. F. Beddom, supt.
Coal City St. Clair Ry, 234.	Coal City Mining Co. [J. H. Viyion, prest; John Postell, seey, and treas.; W. P. Laramore, vprest, and mgr. Cap. sits, \$100.00. Nos. 1 and 2. Slope, \$40,000 tons; steam; 60 coke ovens, capacity 18,000 tons. Wm. Herbert, supt.
Coaling Tuscaloosa Ry, 35,	Coaling Coal & Coke Co. A. J. Lyle, prest.; S. Frank Perkins, seey, and treas. Cap. stk. 8100,000. Perkins. Slope, 100 tons, steam. S. Frank Perkins, mgr.

Alabama-Connellsville Coal & Coke Co. H. H. Epping, prest., B. S. Maultsby, seey, and treas., C. G. Aberrounble, mgr, and v.-prest. (3p. stk. 850,000). Connellsville Mines. Slope, 30,000 tons; steam, 50 coke ovens, 20,000 tons. Edward D, Lewis, supt.

Cherokee Wright & Adams, Leonard, Ala. (local). Open pit, 50 tons.

Collinsville Ry, 612.

Connellsville Mines Ry, 408, Jefferson

Wymoud... Ry, 408,

#### COAL-BITUMINOUS-(CONTINUED)

COAL-BITUMINOUS-(CONTINUED)		
Location of Mine, Railwars, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
	Corona Coal & Coke Co., Jasper, Ala. John Greenough, prest.; E. G. Storey, secy. and treas.; L. Bellusgrove, gen. mgr. Cap. stk. \$1,000,000. Corona Nos. 1, 2 and 3. Drifts, slope, 300,000 tons; steam, horse; breaker; washer; 30 coke ovens. Peyton Norvell, supt.	
Cullman Cullman	Fuller, Parker & Co. Parker and Fuller. Pit; hand. Marcell Schmitt, supt.	
De Berniere Jefferson Ry.Little Warrior 283,	Little Warrior Coal Co., Birmingham, Ala., National Bank Bldg. Richard Thomas, prest.; J. de B. Hooper, secy, and treas. Cap. stk. \$10,000. De Berniere. Slope, 30,000 tons; horse, steam.	
GadsdenEtowah Ry. 240, 208.		
11. 12. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	The Sam Clayton Coal Co., 415 Broad st. J. S. Clayton, prest, and mgr.; J. M. Flood, seey.; M. C. McCauly, treas. Cap. stk. \$10,600. Naheulola. Tunnel, 5,600 Ions; steam. Sam. Clayton, supt.	
Gamble Mines Walker Ry, Kings 351.	Townley Coal & Coke Co., Jasper, Ala. J. C. Neely, prest.; J. B. Carrington, seey., treas, and mgr. Cap. stk. \$400,000. Gamble. Slope, drift, 120,000 tons; steam, compressed air; 300 coke ovens. A. P. Van Fleet, supt.	
Gurnee Shelby Ry. 240.	Excelsior Coal Co. T. H. Aldrich, prest, and treas.; A. H. Carpenter, secy.; Cornelius Cadle, mgr. Cap. stk. \$1,420,000. Anita and Buck Mountain. Slopes, 100,000 tons; steam. J. E. Strong, supt.	
Horse Creek Walker (P.O. Sharon) Ry. 351.	Dora Coal Mining Co. J. T. Morgan, prest.; R. E. Morgan, secy, and treas. Cap. stk. \$100,000. Dora. Drift, 75,000 tons; horse. W. A. Gray, supt.	
	Thomas Price & Co. Thomas Price sr., prest, and mgr.; W. A. Price, secy, and treas. Cap. stk. \$25,000. National. Slope, 120,000 tons; steam. D. Hanlen, supt.	
InmanSt, Clair (P.O. Fairview) Ry, 234.	Inman Mines, St. Clair Coal Co., Ragland, Ala., R. L. Robinson, prest.; J. C. Mellichamp, seey.; Rees C. Harris, mgr. Slope, tunnel, 25,000 tous; steam. Rees C. Harris, supt.	
dasper Walker Ry, 351,	secy. Coartery and Cammer. Traces, 40,000 tons, norse,	
Johns Jefterson Ry, 408.	De Bardeleben Coal & Iron Co., Bessemer, Ala. H. T. De Bardeleben, prest.; David Roberts, vprest.; Andrew M. Adger, seey, and treas. Cap. stk. \$10,000,000. Blue Creek. Slopes, 146,535 tons; steam; 280 coke ovens, 169,53 tons. L. W. Johns, 8404.	
4	Tuggle-Ellis Mining Co. J. D. Tuggle, prest, and mgr.; F. C. Ellis, secy. and treas. Cap. stk. \$100,000. Herring. Open pit, 180,000 tons; horse. C. W. Hawkins, supt.	
Leonard Cherokee Lewisburg Jefferson Ry. Birmingham 240, 280, 351, 422, 622.		
Lockhart Walker P, O, and Ry, Corona	Lockhart Coal Co., Corona, Ala. E. W. Coleman, prest.; T. C. Smithson, seey.; H. L. Smithson, treas, M. Sanders, mgr. Cap. stk. §24,000. Lockhart. Slope, 24,000 tons; steam. A. D. R. Lainer, supt.	
Morris	J. F. Rogers (local). Rogers. Tunnel, 40 tons.	
Mounds Jefferson Ry, 408, 622,	Alethia Coal & Mining Co., Birmingham, Ala., Morris Bldg. W. M. Mayer, prest.; 4, G. Mallett, seey, and treas.; C. B. Walker, mgr. Cap. stk. \$25,000. Alethia. Slopes, 10,000 tons; steam. H. H. Graves, supt.	
Palos	Turner Coal Co., Birmingham, Ala., Morris Bldg. Chas. Turner, prest.; R. II. Turner, vice-prest, and gen. mgr.; A. Latady, secy. and treas. Cap. stk. \$20,000. Turner. Tunnel, 60,000 tons; horse; washer. R. H. Turner, supt.	
Ry. 622.	Deer Creek Coal Co., Marietta, Ala. J. E. Cooke, prest, and geu, mgr. Cap. \$10,000. Deer Creek. Slope, 36,000 tons; horse. Wm. Faul, supt.	
Pratt MinesJefferson Ry. 240, 351, 408.	Tennessee Coal, Iron & R. R. Co. Thomas C. Platt, prest, Jas. Bowron, seey, and treas,: G. B. McCormack, mgr. Cap. stk. \$10,000,000. Pratt. Slope, shaft, drift, 1,250,000 tons; steam; washer; 1,055 coke ovens, capacity 42,5000 tons. Erskine Ramsay, supt.	
QuintonJefferson	Reid & Glover, J. L. Glover, prest.; J. S. Reid, secy, and treas.; M. McLarity, mgr. Cap. \$200,000. Quinton. Slone, steam. M. McLarity, supt.	
Ragland St. Clair lty, 234.	Hudson & Co., Greenville, S. C., 267 Washington st. Frank Hamands, prest.; J. H. Morgan, seey.; W. A. Hudson, treas.; E. E. Clayton, ugr. Cap. 8tk, \$100,000. Tunnel, slope, 49,000 tons; washer; 10 coke ovens. E. E. Clayton, supt.	
** **	St. Clair Coal Co. R. L. Robinson, prest.: J. C. Mellechamp, secy. and treas.; Rees C. Harris, mgr. Shaft and slope, 35,000 tons; steam; washer; 10 coke ovens, capacity 10,000 tons. Rees C. Harris, supt.	
Russellville Franklin Ry, 61,	Lady Ensley Coal, 1ron & R. R. Co. W. M. Sunde, prest.; Thos. D. Radcliffe, secy, and treas.; Walter Moore, mgr. Cap. stk. \$30,000,000. Lady Eusley. 200,000 tons; steam. R. L. Williamson, supt.	
ShannonBibb (P. O. Bessemer) Ry. Shannon 408.	De Bardeleben Coal & Iron Co., Bessemer, Ala. H. T. De Bardeleben, prest.; David Roberts, v-prest.; Andrew M. Adger, seey, and treas. Cap. stk. \$10,00,000. Helena. Slope, 146,535 tons; steam; 280 coke ovens, capacity 106,530 tons. L. W. Johns, supt.	
SumterJefferson (P. O. Belle Sumter.) Ry, 408,		
Tuscaloosa,Tuscaloosa Ry, 6,		
	A, Durie (local). Cap. \$3,000. Shaft, 4,000 tons; steam.	
Warrior Jefferson Ry, Watts 408,	Tunnel, 50,000 tons; horse, L. K. Moss, supt.	
** **	Watts Coal & Iron Co. A. W. Graham, prest.; W. C. Ruffin, seey, treas, and mgr. Cap. stk. \$210,900. Watts. Open pit, 50,000 tons; horse; 33 coke ovens, capacity 20,000 tons. W. C. Ruffin, supt.	

... Jefferson Trussville Furnace & Mining Co., Trussville, Ala. R. D. Smith, mgr., Cap. stk, \$600,000, Bradford, Slope, 60,000 tons; steam; 103 coke ovens, capacity 25,000 tons. Harry Watkins, supt.

#### GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND

NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

IRON	
Location of Mine, Railways, Water Routes and Shipping Point. Town and County.	NAME OF CEMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TUNS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Alice Jefferson Ry, Fossie 408,	J. R. & C. J. Smith, Fossie, Ala. A. J. Ferrell, mgr. Fossie, Wares, Muscado, red orc. Slopes, 360,000 tons; steam; furnace, A. J. Ferrell, supt.
	Woodstock Iron Co., T. G. Bush, prest.; J. W. Stillwell, seey, and treas.; S. X. Noble, mgr., Cap. stk., \$3,000,000, Woodstock, brown hematife. Open, Lo,000 tons; steam, horse; 2 furnaces, 60,000 tons. John Ballard, supt.
Attalla	Attalla Mining & Manufacturing Co., Chattanooga, Tenn., 308 Richardson Bldg. W. M. Nixon, prest, and treas.; John C. Knox, seep; Geo. W. Nixon, ngr. Cap. stk. \$30,000. Attalla, Winchester, red fos-siliferons, Tunnel, 5,000 tons; horse, John C. Knox, supt.
0	William Nickson, Chattanooga, Tenn. Attalla, Tunnel, 350,000 tons; hand, steam, John Knox, mgr, and supt.
Bessemer Jefferson Ry, 408,	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest.; W. L. Sins, seey, and treas. Sloss, red hematile. Slope, 200,000 tons; steam and compressed air. C. P. Luding, supt.
Brierfield , Blbb Ry, 240,	Alabama Iron & Steel Co., T. J. Peter, prest.; E. T. Peter, secy. Cap. 8tk. \$1,000,000. Bibb, brown hematite. Open pit, 20,000 tons; furnace.
Cedar Bluft Cherokee Ry, Lawrence 240,	Burnett & Smyer, R. Lawrence, prest, and gen, mgr.; James F. Burnett, seey, and treas. Cap. stk. \$20,000. Stallings, red fossiliferous. Slope. 1, N. Tumlin, supt.
Champion Blount Ry, 408,	J. W. Worthington & Co., Birmingham, Ala. Cap. \$1,000,000. Champion, brown hematite. Open pit; steam; washer. W. A. Wall, supt.
Gadsden "Etowah Ry. Thomson's Switch 622.	Bean Mining Co. Robert Bean, mgr. Red hematite. Slope, 12,000 tons, horse,
	Fitzgerald & Smith, 319½ Broad St. P. S. Fitzgerald, prest., seey, and treas.; Louis Smith, mgr. Cap. \$5,000. Red hematite. Tunnel, 35,000 tons; hand, horse. Louis Smith, supt.
**	Gadsden Iron Co., A. J. Crawford, prest.; T. W. Stewart, seey., treas, and mgr. Gadsden, red hematite. Open, 12,000 tons; hand.
	J. W. Hammond, Cap. \$10,000. O'Conner, red hematite. Open pit, 136,000 tons; horse, steam; furnace, too tons. J. W. Hammond, supt.
, 11	James G. Thomson, Red fossiliferous hematite. Slope, open, pit, 4,800 tons; horse,
Trondale, Jefferson Ry, Ruffner 612, 622.	Sloss Iron & Steel Co., Birmingham, Ala. Thomas Seddon, prest.; W. L. Sims, seey, and treas. Sloss Irondale, red hematite. Drift, 925,000 tons; gravity. Thomas C. Culverhouse, supt.
Kaolin De Kalb Ry, James Switch 35.	J. M. Cux. Cap. \$4,000. Kaolin, red fossiliferous. Tunnel, open pit, 6,000 tons; horse,
Laney . Calhoun Ry, 408.	J. C. Laney & J. E. Line, J. C. Laney, gen. mgr. Cap. \$10,000. Laney's, red and brown hematite. Tunnel, open pit; hand. W. T. Burk, supt.
	J. E. Line & Co. Cap. \$10,000. Bonanza, brown hematite. Open pit, 20,000 tons; hand. Chas. Travis, supt.
	Reynolds from Co. Col. Gordon McKay, prest.; W. A. Glover, mgr., and freas. Cap. \$100,000. Reynolds, brown hematite. Open pit, 60,000 fons; steam, W. A. Glover, supt.
	Lady Ensley Coul, Iron & R. R. Co. W. M. Sunde, prest,; Thos. D. Radeliffe, seey, and treas,; Walter Moore, mgr. Cap. 8tk. \$90,000,000. Lady Ensley, hematite, 150,000 fons; steam; washer, R. L. Will- lamson, supt.
Shelby Shelby Ry, 408.	Shelby Iron Co. T. G. Bush, prest.; H. C. Cooper, seey.; N. S. Gurnee, treas. Shelby, brown hematite, Furnaces.
TecumschCherokee Ry, 234, 240.	Tecumseh Iron Co., P. U. Moore, prest.; P. B. Warner, seey.; S. J. Fearing, treas, and mgr. Cap. 8tk, \$200,000. Baker Hill, brown hematite. Open pit, 50,000 tons; furnace; 15,000 tons.

### MINERAL PAINT

Loca	TION OF	MINE,
RAILWAY	S. WATE	R ROUTES
and S	HIPPING	POINT.
Town	AND	COUNTY
T () M 24	4.51	6 (16 74 7 7

Warrior . Ry. 408

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mier, Rind of Product, Rind of Mine, Annual Outfut in Tons of 2,000 Pounds, Rind of Power Used, Paint Mills, Euc., and Name of Mine Sufferintendent.

Jefferson Hoene Warrior & Jefferson Coal Co. B. H. Frank Hoene, prest,, mgr, and treas.; W. A. Hoene, seey, Cap, stk. \$100,000. Hoene Warrior, black band. Drift, slope; steam. W. A. Hoene, supt.

Coosada Station. ,Elmore Ry, 408,	Gayle & Semple, Montgomery, Ala. Vellow ocher. Tunnel, 500 tons; steam,
Jackson Clarke Ry, 462, 768,	Jackson Golden Ochre Co. A. M. Wing, prest.; Geo. W. Powe, secy, and treas., M. L. Pritchett, mgr. Cap. 8tk, \$10,000. Vellow ocher. Tunnel; steam.
Perdue IIIII Monroe Ry, Claiborne 7.	Claiborne Ochre Co., Selma, Ala. R. H. Agee, prest, and mgr.; H. P. Agee, secy.; W. C. Agee, treas. Cap. stk., \$5,000. Yellow ocher. Open pit.

## STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARKY, RAILWAYS, WATER ROUTES AND SHIPFING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL UPFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMELLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
BridgeportJackson Ry, 430, 482, 746.	Bridgeport Stone Co. Frank H. Edwards, prest, and mgr.; J. Bradley Patterson, seey, and treas. Cap. stk. \$10,000. Deptford and Riverside, gray sandstone and blue limestone. Open pit; horse, hand. A. Melkae and das. Kelly, supts.	
lsbell Franklin Ry, Darlington 61,	1sbell Quarry Co. Charles F. Conrad, prest, and mgr. Limestone for fluxing.	
Luverne Crenshaw Ry. 6.	C. R. Brickeh & Co. Cap. \$5,000. Limestone. Steam; limekilns.	
Rock Springs Etowah Ry, 408,	C. Midgley & Co. Cap. \$6,000. Rock Spring, limestone. Open pit, 30,000 tons; steam; limekiln, 900 tons.	
South Florence, Colbert (P. O. Florence) Ry, 408,	Florence Cotton & Iron Co., Philadelphia, Pa., 330 Walmut st. Abraham 8, Patterson, prest.; James Pollock, sery, and treas.; Daniel King, mgr. Limestone. Open plt, 45,000 tons; steam. Thomas Keefe, supt.	

SEE ALSO SUPPLEMENTARY LIST

## ALASKA

#### COAL-BITUMINOUS

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

James McClasky, Open, pit, hand,

Cook's Infet

Alaska Coal Co., San Francisco, Cal., 246 Sacramento st. W. H. Eastland, prest.; S. M. Eastland, California Safe Deposit & Frust Co., treax, W. T. Robinson, mgr. Cap. stk, \$2,000,000. Kachekmak, tunnel, 1500 tons, hand. W. T. Robinson, sppt.

Unga Island. (P. O. Victoria, B. C.)

Coal Harbor Coal Mining Co., San Francisco, Cal., 401 California st. 1rwin C. Stump, prest.; C. W. McAfee, V-prest.; J. K. Howell, seey.; A. S. Baldwin, treas., John C. Green, mgr. Cap. 8tk, \$2,000,000, Tunnels, 150,000 tons; steam.

#### GOLD AND SILVER

LOCATION OF MINE. BAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY O. INDIVIDUAL, LOSA 1888 OF FU. HAL OF ICE, NAMES OF OFFICES, CAPITAL STOCK, NAME OF MINI, KIND OF ORE LATER OF MINS, ANNUAL OUT FUT INTONS OF 2100 POYNDS, KIND OF POWER USERS, NAME OF MINES, AFFORM MINISTER, STAND MINISTE

Douglas ...Douglas 1st. All shipments to and from Alaska points

Alaska-Treadwell Gold Mining Co., San Francisco, Cal., 420 Montgomery St., Willard Alvord, prest.; A. I. Corbus, seey.; J. P. Corbus, treas., R. Doncan jr., mar., Cap., Sk., 85,000,000, Alaska, Treadwell, gold. Open pit, Slatis, tunnels, 240,000 tons, free and refractory, stem; 39 stamps; R. Doncan jr.,

The Pansy Mining Co. Pansy, gold and silver. Tunnel; free.

Fish River Alaska (P. O. Sitka) Golovine Bay 552.

The Omilak Gold & Salver Mining Co., San Francisco, Cal., 401 California st. John C. Green, mgr. Cap. stk. \$10,000,000. Omilak and Pioneer. Tunnel, 312,000 tons; free; steam.

Bismark Mining A. Milling Co., Portland, Ore. S. Aoung, prest., Fred, Goetz, seeg.; J. S. Spencer, treas, Cap. stk. 850,000. Bismark No. 2, gold. Tunnels, free, steam. Fred, Schultz, supt. Archibald Campbell. Fuller First, gold and silver. Tunnels and placer, 200 Ions; free and refractory, water; 5 stamps and pulverizer

Denver Summit Cold Co., Boston, Mass., 257 Washington St., Harrison L. Fisk, prest, and treas.; Fred. L., Gleason, seeg., Winthrop W. Fisk, mgr., Cap. 8tk, \$200,000. Henver Summit, gold. Tunnel; free and refractory, strain; 20 stamps. M. Le Page, 8th.

Junean Minling & Manufacturing Co., Eau Claire, Wis. M. Wadleigh, prest.; R. H. Downing, seey.; J. F. Miller, treas., Win. M. Ebner, nigr. Cap. 8tk, \$125,000. Gold. Tunnel, 5,000 tons; free; water: 10 stamps. Win. M. Ebner, supt. Last Chance Placer Mining Co., Cap. \$500,000. Last Chance, gold. Placer, hydraulic. William Nelson,

Nowell Gold Mining Co., Portland, Maine. Thos. 8, Nowell, prest., Arthur L. Nowell, seey.; Hon, Albert C. Howard, trens.; Fred'k D. Nowell, mgr. Cap. 8tk. \$2,000,600. Gold and silver. Hydraulle, quartz, free, water; 20 stamps. John Olds, supt.

Starr & Reed. Phillip Starr, seey.; W. F. Reed, treas. Gold. Open; free; steam and water.

Shuck Bay Placer Mining Co., Jersey City, N. J., 1 Montgomery st. Shuck Bay, gold. Placer; water,

Willoughby & Weir, Cap. \$15,000. Tellurian Group, gold. Slope, open pit; retractory and free: water,

H. S. Wyman, Dora, gold, Tunnel, free; water; arrastre.

#### SEE ALSO SUPPLEMENTARY LIST

# ARIZONA

## COPPER

LOCATION OF MINE, RAILWAYS, WATER KOUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfut in Tons of 2,00 Founds, Kind of Power Used, Furraces, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
CliftonGraham Ry. 692.	Arizona Copper Co., Ltd. James Colquhoun, prest, and mgr.; J. G. Hopkins, seey, and treas. Cap. stk. \$3,000,000, Longfellow, Metcali, Simpson and Coronado Groups, copper. Shafts, tunnels and open cuts, 50,000 tons; self-fluxing and siliceous; water and steam; water jacket, 70,000 tons. James Colquhoun, supt.
44	Silver & Copper Cliff Mining Co., Nevada, Mo. Will F. Norman, prest.; J. D. Wevear, secy.; W. H. Robinson, treas. Copper Cliff, copper. Tunnels and shafts; carbonates and black sulphides.
Globe	Old Dominion Copper Co., Baltimore, Md., Keyser Bldg. Wm. Keyser, prest.; Jos. Clendenin Jr., seey.; B. Brent Keyser, treas. Old Dominion, copper, Shaft, 38,000 tons; steam; 3 water jackets, 50,000 tons. A. L. Walker, supt.
Morenci Graham Ry, Clifton or Lords- burg 19, 692,	Detroit Copper Mining Co. of Arizona, New York City, 99 John st. Wm. Church, prest, and mgr.; Jos. Van Vleck, seey, and treas. Copper Mountain and others, copper. Shafts, tunnels and pits, 25,600 tons; steam; 4 water jacket furneses. Gordon MeLean, spit.
Pantano,Pima Ry, 26, 692.	W. B. McCleary. Niagara Group, copper. Shaft and tunnel, 9,000 tons; oxide and carbonate; horse.
Tucson	J. K. Gooding, P. O. Box 236. Cap. \$100,000. Young America, copper. Shafts, tunnels and levels, 9,000 tons; oxide; steam; water jacket furnace, 25 tons.
	GOLD AND SILVER
LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore. Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Agua Fria Valley, Vavapai Ry, Prescott 604.	Frank McCabe. Gladstone, gold. Shafts and tunnels, 300 tons; refractory; horse and hand.
	Willard Rice. Cornucopia, gold and silver. Open pit and shaft; free; water.
Ariyaca Pima Ry, Tueson 692.	Ates & Wieck. Red Rock, silver. Shaft and tunnel; free; hand.
44	Wm. J. Clark, Tucson, Ariz. Horn Silver, gold, silver and lead. Shafts and tunnels, 50 tons; free and refractory.
0 0	John P. Hedigan, Cap. \$50,000. Hedigan, gold, Tunnel; free; steam; to stamps,
а	John Sexton. Cap. \$5,000. Cockatoo, Ballarat and Broken Hill, gold and silver. Tunnels and shafts, 100 tons; refractory; hand.
Castle Dome Ldg Yuma (P.O. Yuma) Ry. 692.	Hodges Bros., Yuma, Ariz. Cap. \$5,000. Washington, silver and lead. Shaft, 350 tons; free and refractory; horse and hand.
Cedar Valley Mohave P. O. and Ry. King- man 26.	Diamond Joe Mining Co. Diamond Joe, silver, copper and lead. Shaft and tunnel, 150 tons: refractory; hand.
Cherry Vavapai Ry. Prescott 604 (32 m.)	
44	Mocking Bird Mining & Milling Co., Richard De Kuhn, prest, and mgr.; Clarence Williams, seey, and trens. Cap. six. \$8,000. Mocking Bird and 4 others, gold. Shaft and tannels, 3,000 tons; free; stem; lostamps. Richard De Kuhn, supt.
49 14	J. H. B. Smith, Cap. \$2,500. Rocky Pass, gold. Tunnel and slope, 300 tons; free; water.
ChlorideMohave (P. O. Mineral Park) Ry. Kingman 26.	Hampton, McDuffee & Co., Mineral Park, Ariz. Rain Bow, gold and silver. Tunnel, shafts and slopes, 200 tons; free and refractory; hand. H. B. Hampton, supt.
Clifton . Graham Ry, 19.	Golden Eagle Gold & Silver Minling & Smelling Co., Jamgor Me., of Harlew st. Arthur C. Higgins, prest., S. Willis Whitcomb, seey, and treas. Cap. stk, \$500,000. Golden Eagle and 2 others, gold and silver. Tunnel, drift; free, refractory; hand (developing). J. F. Shnart, supt.
Ry, Prescott 604.	Munds, Campbell & Olden. Supply, Nozarth and Cross Cut, gold. Shaft; free; steam; arrastre.
Crown King Yavapai Ry, Prescott 604.	Crowned King Mining Co., Edinburg, Ill. O. F. Place, prest.; N. C. Shekels, seey.; Geo. P. Harrington, treas. Cap. 8K, 85,000,000. Crowned King, gold and silver. Tunnel, 6,000 fons; refractory; steam_Restamps. John Martin, supt.
	Oak Grove Mining & Milling Co. Chas. S. Attiv. mgr. Glenwood, Oak Grove and others, gold and copper. Shafts, 200 tons; free; steam and horse: Dyer mill and concentrator. Chas S. Attiv. supt.
Dragoon Summit Cochise	Pall and
	Fame Mining Camp. Chas. Denhard, mgr. and supt. Fame, silver. Tunnel; free; hand.
44	R. E. Humphrey. Gold and silver. Shaft; free; hand. C. Ruckelsbausen, Box 192. London, Hartford and 2 others, silver. Open pit, shaft, tunnel and slope: free.
Gold Basin Mohave Ry, Hackberry 26.	Carey & Merrill. Christmas Gift, gold. Tunnel, 1,300 tons; free; water; arrastre.

Quriotoa Ry, 692.

Red Rock Ry, 692.

#### GOLD AND SILVER-(CONTINUED)

	GOLD AND SILVER-(CONTINUED).
LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Orie, Kind of Mine, Annual Outfut is Tons of 2000 Pounds, Kind of Power Used, Staap Milles, Etc., and Name of Mine Sufferinfeadert.
TOWN AND COUNTY.	Of FOREN COLD, MARKE MIDDIO, ENG, AND NAME OF MINE OF BRINESSES.
Gold BasinMohave (Continued.)	O. K. Mining & Milling Co., Kansas City, Mo., New England Bidg. Milton Welsh, prest.; C. Kinney, seey.; Newton Welsh, treus.; Frank Welsh, mgr. Cap. stk. pd. \$500,000. O. K. and Excelsior, gold. Shafts and tunnels, 6,000 tons; free; steam; 10 stamps. R. G. Patterson, supt.
46	Henry Schaefer, Cap, \$15,000. Mountain View, Miners' Delight, gold and silver. Shaft; free.
Ry, Sonoita 26,	tornella Mining Co., St. Louis, Mo. II, V. Kent, prest.; J. H. Sudboronot, secy. Monitor, silver and lead. Shatts: refractory (developing).
14 44	Thomas Deering. Bellmont, gold, silver and lead. Tunnel and shaft; refractory; hand (developing),
Gunsight Pima Ry, Gila Bend 692,	Silver Girt Mining Co., Kansas City, Mo., 16 and 17 Gibraltar Bldg. E. B. Wingate, prest.; Morton Thayer, seey., treas, and mgr. Cap. sik. Sito.00000. James F. Ryan, supt. 15,000 flons; refractory; steam; 20 stamps. James F. Ryan, supt.
Harqua Hala Vuma Rv. Aztee 692.	Bonanza & Golden Eagle Mining Co. A. G. Hubbard, prest, mgr. and supt.; H. E. Harris, seey.; G. W. Bowers, treas. Cap. stk. 8500,000. Gold Mountain, gold. Shafts, 26,000 tons; free; steam; 20 stamps.
	Hubbard & Bowers, A. G. Hubbard, prest, and mgr.; H. E. Harris, seey.; Wells, Fargo & Co. Bank, treas. Cap. stk, \$80,000. Harpan Hala, Bonanza and Golden Eagle, gold. Shaft, 28,800 tons; free; steam; 20 stamps. A. G. Hubbard, supt.
Klugman. , Mohave Ry, 26.	Arkansas & San Antonio Mining & Milling Co., East St. Louis, Ill. Wm. Strob. prest.; J. H. Donnewald, seev.; F. H. Miller, treas; O. F. Kuenser, mgr. and supt. Cap. stk. \$200,000. Arkansas and San Antonio, gold and silver. Shaft; steam (developing).
» «	Bowers, & Co. F. F. Baldwin, mgr. Night Hawk, gold and silver. Tunnel and shaft; refractory; tunnel, G. M. Bowers, supt.
0 44	Foster S. Dennis & J. J. Jerome, Cap. \$20,000. Tibuclo, silver and lead. Shaft; refractors; horse (developing). J. J. Jerome, supt.
	Gold Bug Mining Co., Colorado Springs, Colo., 13 Hagerman Block. Walter F. Crosby, prest.; W. H. Leonard, seey, and treas.; Robert J. Grant, fugr. Cap. 8tk. \$1,000,000. Gold Bug, gold. Shaft: free; horse developing.
44 16	dolm Lynch & F. S. Dennis, Cap. \$50,000, C. O. D., gold, silver and lead. Shaft, 8,000 tons; refractory; steam; pulverizers. Chas, Lynch, supt.
	Primrose Mining Co. Geo. M. Bowers, mgr. and supt. Primrose, silver. Shaft; refractory (developing).
Lost Basin Mohave (P, O, Gold Basin) Ry, Hackberry 26.	
Mammoth . Pinal Ry, Tueson 602.	Mammoth Gold Maies, Ltd., London, England, 257 Winchester House, Old Broad st. James Hastings, prest., Charles Goodyear, seey.; Joseph W. Johnston, mgr. Cap. 8tk, 82500,000. Mammoth, gold, Shaft, 2500 (108); free; steam; 5.8 stamps. Andrew J. Collins, Supt.
Mineral Park Mohave Ry, Kingman 26,	U. E. Sherman. Distail, gold and silver. Shaft, 500 tons; refractory; steam. F. W. Thies, supt.
	Stephen Smith. Samoa, gold. Tunnels and shafts; refractory; horse (developing).
Nogales, Pima Ry, Calabasas 26.	H. A. Read. St. Patrick and San Francisco, silver. Shaft, tunnel, 1,000 tons; free; steam; 5 stamps. M. W. Read. supt.
Oro Blanco Pima Ry, Tueson 692 (68 m.)	Austerlitz Gold Minling Co., Norwich, Conn. Walter I, McCoy, prest.; Frank A. Mitchell, seey, and treas.; C. W. Kempton, mgr. and supt. Cap. stk, \$200,000. Austerlitz, gold and silver. Tunnel and open pilt; free; Steam.
**	G. Jenkins & A. Haeker. Silver Prince, gold, silver and lead. Shaft, open cut; hand "developing".
	Stockton Consolidated Mining Co., Stockton, Cal. C. C. Castie, prest., C. M. Keniston, seey, and treas.; C. E. Phileo, mgr. Cap. stk. \$500,000. Meta and Lillie, gold, silver, copper. Shaft and tunnel; tree.
Pinal (not a P. O.)	Pinal Consolidated Minling Co., San Francisco, Cal., 302 Montgomery st. B. Hart, prest.; Alexas S. Chemhant, seep, and treas; J. Champion, pigr. Cap. 84k, \$500,000. Pinal, lead and silver. Tunnel, 10,000 tous; refractory. J. Champion, spi.
	Aller Mining & Development Co. Egbert Chamberlin, prest.; Engene M, Farr, seey, and treas.; Chas. M, Clark, ngr. Cap. stk. \$1,000,000. Silver Belt, silver. Shaft; steam; quartz mill; sheam jigs. Chas. M. Clark, supt.
**	J. W. Archibald & A. Kozik. Cap. \$1,000. Frankford, gold and silver. Shaft and tunnel, 104 tons; refractory; hand.
	Catoetin Silver Mining Co. W. E. Pedley, prest, and mgr.; H. Arthur Swan, seey. Cap. stk. 3125,000. Catoetin, gold, Silver and lead. Tunnel and shafts, 800 tons; refractory; steam and water; 10 stamps. J. W. Woodruff, sup.
	Chas, M. Clark. Cap. \$20,000. Silver Belt, silver. Shaft, 50 tons, refractory; steam figs.
** 33	Commercial Mining Co., New York City, 29 John St., Jas. Douglas, prest.; Geo. Nofman, seey, and treas, Senator, gold and silver. Shatt and tunnel, 4,000 tons; refractory, steam and water, J. S. Douglas, supt.
**	Congress Gold Mining Co. E. M. Duckey, prest, and treas.; F. M. Murphy, seey, and mgr. Cap. stk, 8600,000, Congress, gold. Shaft, 36,000 tons; refractory; steam; 40 stamps. F. M. Murphy, supt.
	Shirley & Webber, Cap. \$12,000, Parnell, gold, Tunnels, 1,460 tons; free; steam; 5 stamps, James Shirley, supt.
	Webb & Myers. Silver, copper and lead. Shaft and tunnel; refractory; hand (developing). C. E. Myers, supt.
Abrainton Dinon	

Pima Peer, Peerless & Crocker Mining Co., San Francisco, Cal., 23 Nevada Block, W. S. Lyle, prest.; Aug. Waterman, seey.; Nevada Bank, trens. Cap. 8tk, \$10,000,000. Teer, Peerless, Crocker, Weldon, silver, Tunnel and Slaft; free; steam; go stamps. D. C. Pickett, supt.

Pinal Arizona Consolidated Gold and Silver Mining Co., Green Bay, Wis. James H. Elmore, prest.; M. J. McCornick, seey, and treas; D. E. Elmore, ngr. Cup. stk. \$25000. Jessic Benton. Tom Benton and softiers, gold and silver. Shaft and tunnel, 1200 tons; free, refractory; steam; 5 stamps. D. E. Elmore, supt.

#### GOLD AND SILVER - (CONTINUED).

LOCATION OF MINE.
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPPRINTENDENT.

Town AND COUNTY.

Silver King. ... Pinal Ry, Casa Grande 622.

"" "John M. McCaffrey, Edison Group, gold, silver, copper and lead. Shaft and tunnel; refractory; hand (developing).

"" "Silver King Mining Co., San Francisco, Cal., 310 Pine st., Rooms 15 and 17. Thomas M. Theby, prest.; J. W. Pew, seey.; California Bank, trens; Josath Champion, ngr. Cap. 8tk, 81,000,000. Silver King, W. Pew, seey.; California Bank, trens; Josath Champion, ngr. Cap. 8tk, 81,000,000. Silver King, South Constock, Wm. H. Lempker, prest.; W. F. Tateen, seey, and treas, Cap. 8tk, 810,000,000. S. Comstock, Ry, Endert's Mill 26.

Skall Valleys Vavapai Ry, Endert's Mill 26.

Stanton. Vavapai Ry, Prescott 26, 229.

Tombstone Coehise Ry, Fairbanks 26.

J. Marray Railey, San Francisco, Cal., 18 Post st. C. O. D., silver. Shafts and drifts; free; horse and hand (developing).

Tueson . . Pima Ry. 692.

Telephone Mining & Reduction Co., San Francisco, Cal., 18 Post st. J. B. McChesney, prest.; J. Murray Balley, sey., treas, and mgr. Cap. stk. \$1,000,000. Telephone, silver. Shafts and drifts, 200 tons; refractory; shum. John Haley, supt.
 Pima Eagle Gold Mining Co., Burlington, Iowa. N. S., Young, prest.; A. H. Kuhlemein, seey, and treas. Cap. st., \$200,000. Suginaw and others, gold, silver and lead. Shafts, L000 tons; refractory; steam. Class.

stk, \$200,000. Saginaw and others, gold, silver and lend. Shafts, 1,000 tons; refractory; steam. Chas, T. Connell, supt. lowa Mming Co., Cedar Rapids, Iowa. Dr. James Carson, prest.; M. T. Butterfield, seey, and mgr.; J. B. Leigh, trens. Cap. stk, \$100,000. Blue Jay, silver. Shafts and numels, 300 tons; retractory.

Victor, Cochise P.O. and Ry.San Samon 692.

Cochise Victor Mining Co., Chicago, Ill., 84 La Salle st., Room 409. Cap. stk. \$10,000. Victor Group, silver and lead. Tunnel; retractory (developing). Thomas Burns, supt.

#### MICA.

Location of Mine, Railways, Water Routes and Shipping Point.

COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CA. TAL STOCK,
NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,004-POID.

OF POWER USED, ETC., AND NAME OF MINE EXPERIMENDEDET.

Tuc son, . Ry, 692, Pima Carl Bock, Lelia, Little Ida, Mattle D., Prince Carl, Pit; band,

#### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MANE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STORE, KIND OF MINE OR QUARRY, ANNIA OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMERILNS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Cave Creek Maricopa P. O. and Ry. Phonix 419.

McCasey & Luhrs, Phoenix, Ariz., Commercial Hotel. G. H. N. Luhrs, prest, and treas.; John McCasey, mgr. Cap. \$25,000. Onyx. Pit; hand. John McCasey, supt.

Seligman Yayapai Red Mesa Stone & Flagging Co., Albuquerque, N. M. Albert E. Ealy, prest; C. A. Hawks, seey, and Ry, Prescott June, 25. treas. Cap. stk. \$100,000. Red Mesa. Pit; hand; stone mill. C. D. Anderson, supt.

SEE ALSO SUPPLEMENTARY LIST

## ARKANSAS

### COAL-BITUMINOUS

LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used,
TOWN AND COUNTY	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Baldwin Washington Ry. Fayetteville 720.	J. N. Clark, Fayetteville, Ark. L. T. Rice, mgr. Cap. \$4,000. Black Diamond. Tunnel, 800 tons; hand,
Coal Hill. Franklin Ry, 397.	Black Diamond Coal Co. Dr. Webe, prest.; D. L. Boorline, seey., treas, and mgr. Cap. stk. \$4,000. Black Diamond. Slope, 10,000 tons; steam. S. P. Cline, supt.
**	Ouita Coal Co., M. H. Clift, prest.; J. A. Mitchell, seey.; A. Lloyd, mgr. Cap. 8tk, \$100,000. Ouita. Slope, 49,000 tons; steam. E. A. Klein, supt.
Fayetteville Washington Ry, 720.	S. A. Lamons. Cap. \$20,000. Fayetteville. Tunnel and open pit, 5,000 tons, horse and hand.
	Isaac Taylor (local). Taylor. Slope; hand.
Greenwood Sebastian Ry, 714.	South-Western Coal Mining Co. J. P. Burton, prest, and mgr.; C. W. Phillips, seey, and treas. Cap. \$3,000. South-Western, Slope, 20,000 tons; steam, J. P. Burton, supt.
Hackett, Seba tian Ry, Cedars 720.	Buzan Mining & Coal Co., John W. Buzan, prest, and mgr.; James Murry, seey., Mrs. M. J. Buzan, treas, Cap. stk, \$80,000. The Buzan, Slope, 30,000 tons; steam.
Huntington Sebastian Ry, 720,	Kansas & Texas Coal Co., St. Louis, Mo., corner Fitth and Olhan sts. B. H. Hobart, prest.; W. P. Heath, seey, and treas.; John R. Braidwood, mgr. Anderson's, strip. Pit, 500 tons; horse, James Russell, supt.
Jenny Lind Sebastian Ry, 397.	Peter McWillan, Cap. \$1,000. Shatt, 1,600 tons.
	E. B. Petty, Cap. \$10,000. Petty's. Slope, 10,000 tons; steam. A. F. Gardner, supt.
16	Western Coal & Mining Co., St. Louis, Mo., corner Sixth and Locust sts. Edwin Gould, prest., D. S. H. Smith, seep, and treas.; R. M. McDowell, mgr. Cap. stk. Shoon,000, Jenny Llud, 15 and 16. Shaft and slope, 180,000 tons; steam. E. P. Seeley, smj.
Lester Onachita Ry, 714.	Arkansas Coal, Fire Clay & Manufacturing Co., St. Louis, Mo., Laclede Bldg., J. C. Clarke, Mobile, Ala., prest.; J. B. (Jements, y-prest, and mgr; Ed. Hogaboom, seey, and treas, cap. stk. \$200,000. Camden and Garnett. Tunnel; steam, C. ovens, \$60,000 flows. R. Hibbard, supt.
Magazine Logan Ry, Altus 397.	Petit Jean Oil & Mineral Co., Little Rock, Ark, 221 W. Fifth st. Dr. P. H. Treadway, prest.; Leonard Adams, seey.; Clement E. Vost, treas., B. F. Kennedy, mgr. Cap. stk. 8500,000. Open pit; steam, Enaminel Boone, supt.
Ouita, Pope (P.O. Russellville   Ry. 460.	Onita Coal Mining Co., Fort Scott, Kan. Onita. Slope, 24,000 tons, steam; breaker and washer. W. R. Eustice, supt.
Russellville "Pope Ry. 460.	Carey Coal Co., Hutchinson, Kan, Slope, steam,
	A. Popkiss (lessee). The Hiawatha. Slope, 6,000 tons, steam, breaker.
**	Ed. N. Sweet & Co. Cap. \$4,000. Slope, 4,600 tons; steam. J. K. Sweet, supt.
Strickler . Washington	A. B. Hodge (local). Open pit; hand,

#### COPPER

1.00	ATTON OF	MINE.
RAILWA	TN. WATE	в Коттю
AND	SHIPPING	Point.
Tows	AND	COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICES, CAPITAL STOCK, NAME OF MINE, KIND OF DIE, KIND OF MINE, ANNUA OUTFUT IN TORS OF 2,00 POUNDS, KIND OF POWER USER, FURNAUES, FUE, AND NAME OF MINE STEERINFINDENT.

Silver City Montgomery Frank Pease. Diamond Joe, silver, lead and copper. Shaft, refractory; hand, Ry, Hot Springs 340

#### FIRE CLAY.

LOCATION OF MINE	
OR BANK,	
AND SHIPPING POINT.	

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OF BANK, ASNUAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, ETC., AND NAME OF STEPRINFERDENT.

Lester ... Ry. 714.

Ouachita The Arkansas Coal, Gas, Fire Clay & Manufacturing Co., Hot Springs, Ark. J. C. Clarke, Mobile, Via., prest, J. B. Clements, v.-prest, and mgr; Ed. Hogaboom, seey, and treas. Cap. stk.\$200,000. Thunel; steam.

LOCATION OF MINE.

#### GOLD AND SILVER

RAILWAYS, WATER ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce,
AND SHIPPING POINT.	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	OF TORES COED, DIAME STEMP, LICE, AND PASSE OF MICE OUT ENGINEERIES.
Antimony Howard Ry, Nashville 22.	United States Antimony Co., Philadelphia, Pa., 836 Dreyel Bidg. Samuel Richards, prest.; R. M. Smith, seey, and treas.; Win. F. Roberts Jr., mgr., Cap., six, 55,000,000, Ofto, May, O'Bannon, New Discovery, etc., silver, lead and antimony. Shafats and tumels; refractory; water and electricity, furnace.
Bear Montgomery Ry, Hot Springs 310,	New England Mining Co., Portland, Maine, 30 Exchange st. E. O. Clark, prest.; J. M. Russell, secy.; S. W. Roberts, treas, and mgr. Cap. stk. \$500,000. Gold. Tunnel and shaft; refractory; steam.
Benton,	S. H. Whitehome. Rabbit, silver and nickel. Shaft; free milling; steam.
Calico Rock Izard Jackson Ldg, 809a, 714.	Gertrude Gold Placer Mining Co., Chicago, Ill., Room 4, 194 Clark st. J. W. Edwards, prest.; W. A. Webber, seey.; A. A. Webber, treas.; J. J. Collins, mgr. Cap. stk. \$1,000,000. The Gertrude, gold and lead. Tunnel; hand.
Delaney Madison Ry, 720,	Bullion Cife Mining Co., Fayetteville, Ark. L. S. Martin, prest.; D. C. Ambrose, seey.; J. L. Dickson, treas.; Martin & Wade, mgrs. Cap. stk, \$230,000. Gold and silver. Tunnel, 450 tons; free; hand. L. S. Martin, supt.
Elnora Montgomery (P.O. Silver City) Ry, Hot Springs 310,	Elnora Mining, Milling & Real Estate Co., Aurora, Ill. S. B. Sherer, prest, and mgr.; I. B. Tripp, secy. Cap. sck, \$1,000,000. Elnora, silver and lead. Shatt; refractory; steam.
Little Rock, Pulaski Ry, 714.	Little Rock Mining & Smelting Co., corner Second and Spring sts. Dixon C. Williams, prest.; B. H. Gedge, seey, and treas.; R. K. Pitkin, mgr. and supt. Cap. stk. \$500,000. Silver, lead, copper and zinc. Shaft (developing); tree; steam.
Silver City., Montgomery Ry, Hot Springs 310.	Bail of the Woods Maing Co. J. A. Hughlett, prest.; J. J. Hays, seey.; J. F. Robinson, treas.; W. C. King, mgr. Bail of the Woods, silver, lead and copper. Open pit and shaft, to tons; refractory; hand, W. C. King, sapt.
**	Cosmos Mining & Smelting Co., Memphis, Tenn. Wm, Strewli, prest.; Joseph Buerger, seey.; Gus Limberg, treas.; Max Roller, mgr. Cap. stk. \$3,000,000. Cosmos, gold and silver. Free and refractory.
** **	Eureka Mining Co., St. Louis, Mo., 221 N. Main st. W. H. Swift, prest.; Walter Slawson, seey, and treas.; Charles Cutter, ngr. Cap. stk. \$3,000.00. Bully, Sheridan and Kentucky, silver and lead. Shaft; free and refractory, hand. Peter Heenan, supt.
. ** **	Mrs. Lula Gill. Cap. \$2,000. Silver, lead and copper. Shafts; refractory; hand. Dr. J. C. Bates, supt.
45	King & Fisher, W. C. King, mgr. Eureka, silver and lead. Slope; smelting; horse.
** **	Minnesota Mining Co. Minnesota, silver and lead. Shaft and timnel; refractory; steam.
**	Pease & Hughlett. Cap. \$1,500. Silver Hue, silver, lead and copper. Shaft and open pits; refractory; hand.
**	Waterloo Mining Co. P. W. Williamson, treas, and mgr. Waterloo and Lady Franklin, silver. Shaft; refractory; steam. P. W. Williamson, supt.
** **	Wheeler & Ish. Cap, \$15,000. Minnesota and Elnora, silver. Tunnel; free milling; steam. F. M, Ish, supt
	LEAD AND ZINC
LOCATION OF MINE	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	TOWER USED, SMELLERS, EIC., AND MAKE OF MINE SUPERINTENDENT.
El Dorado Dist Marion (Not a P. O.)	Chicago Zine Co., Chicago, Ill., 1020 Chamber of Commerce Bldg. Perry A. Hull, prest.; Edward J. Judd. seey, and Ireas. Cap. 8tk. \$3,000. Esmeralda, lead and zine. Tunnel and shaft (developing).
t'lippin	Ozark Lead & Zinc Co., 8t, Louis, Mo., 316 S. Eightli st., G. A. Willey, prest.; W. A. Robinson, seey.; Fred C. Exter, tress. Cap., stk. \$100,000. Queen Lily, Comstock, Center Point and others, lead and zinc. Tunnel and open pit.
Powell Marion Ry, MeBee's Ldg, 23.	Linton, Black & Co. A. N. Linton, prest.; J. W. Black, seey.; J. R. Poits, treas.; James P. Brady, mgr. Cap. sik, \$25,000. Governor, Eagle and American, lead and zinc. Shaft, tunnel, 500 tons; refractory; hand. James P. Brady, supt.
Toney Marion Ry, Buffalo Ldg, 809a, Batesyille 714.	The Phoenix Zinc Mining & Smelting Co., East St. Louis, Ill., James Menown, prest.; F. B. Runder, seey, and treas. Cap. stk. \$1,000,000. The Phoenix, zinc. Shaft.

#### MANGANESE

LOCATION OF MINE, RAILWATS, WATER ROUTES AND SHIPPING POINT. Town

Vellville.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT

The Southern Zinc Mining & Smelling Co., East St. Louis, Ill. Estell McHenry, prest.; F. B. Runder, secy, and treas. Cap. stk. \$1,000,000. The Southern, zinc. Shaft and tunnel.

New York Zine & Lead Co., New York City, 529 Broadway. Samuel Well, prest.; Moses S. Lorett, secy.; M. Sterm, treas.; S. H. Emanuel, mgr. Cap. 8tk, 81,600,000. Bear Hill, Jay Gould and Lone Pilgrim, lead and Zine, Shafts and timnels, 256 tons, horse, W. Q. Seawel, supt.

Abbot : Independence W. S. Abbot, Batesville, Ark. Cap. \$200,000. Abbot's Manganese Mines. Shafts, drifts and tunnels, 0,000 (P. O. Batesville) Ry. tons; steam; crusher, washer. W. S. Abbot, supf. 744.

## LEGISLATIVE ASSEMBLY, Arkansas] THE MINING DIRECTORY—MINES.

## STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAFITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFITT IN TONS OF 200 POUNDS, KIND OF POWER USER'S KNOW OR MARBLE MILLS, LIMERLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Batesville Independence Ry, 714.	Jesse M. Bartlett. Open cut, 4,500 tons; hand and horse; kiln, 360 tons.
** **	Frank Joblin, Cap. \$8,000. Batesville Quarry. Open plt; hand.
Benton	Arkansas Steatite Manufacturing Co., Little Rock, Ark. Cap. stk, \$500,000. The Wallis, soapstone, steatite, serpentine and slate. Open, tunnels; steatn; kilns, 50 tons.
Cabla Creek Johnson (P. O. Lamar) Ry, 460,	Arkansas Stone Co., Little Rock, Ark., 223 W, Markham st. H, Rudd, prest.; P. C. Irving, seey., treas, and mgr., Cap. stk. \$3,000. Cabin Creek. Open pit, 2,538 tons; hand. Wm. Birse, supt.
HackettSebastian Ry, 720.	A. J. Scott (local). Sand Ridge, stone. Open plt; hand.
Hot Springs Garland Ry, 310.	The Pike Mfg, Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, secy, and treas. Cap. stk. \$70,000. Pike, novaculite stone.
10 to	James A. Smith, 805 Central av. Cap. \$1,000. Open pit, 40 tons; hand,
	J. J. Sutton, 46 N. Bouden st. Sutton's, 10. Slope and tunnels, 300 tons.
**	A. Whittington, 49 Park av. Cap. \$10,000. Oil stones. Open pit, 100 tons.
Llttle Rock Pulaski Ry, 714.	Fred Hanger. Cap, \$20,000. Open plt, 15,000 tons; steam.
**	Little Rock Granite Co., 208 W. Markham st. Zeb Ward, prest.; Zeb Ward jr., seey., treas, and mgr. Cap. stk. \$10,000. Granite. Open pit, 39,000 tons; steam; mill. B. C. Miller, supt.
Lone Rock Baxter Ry, Batesville 809a, 348,	Lone Rock Marble & Mineral Co., Chleago, Ill., Room 4, 194 Clark st. Cummings Cherry, prest.; W. A. Webber, seey.; Cummings Cherry Jr., treas. Cap. stk. \$100,000. Lone Rock, red marble. Open pit; hand.
Russellville, Pope	Ernest B, Kramer (local), Open; hand,

SEE ALSO SUPPLEMENTARY LIST

LEGISLATIVE ASSEMBLY, BRITISH COLUMBIA.

Ventura

# CALIFORNIA

#### ASBESTOS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, annual Outfut in Tons of 2,00 Pouxds, Kind of Power Used, Mills, Etc., and Name of Mine Suferintendent,
San Diego San Diego	John D. Hoff Asbestos Co., 923 4th st. John D. Hoff, prest, and mgr.; N. J. King, secy. Cap. stk. \$100,000
Rv, 552, 692.	Open pit; steam; mill, 1,500 tons.

#### ASPHALTUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Edua "San Luis Obispo Ry, Steele 551.	Bitumen Consolidated Mining Co., San Francisco, Cal., 240 Montgomery St. A. Walrath, prest.; M. P. Doud, seey.; G. M. Perine, treas.; J. A. Fairchild, vptest, and ngr. Cap. 8tk, \$300,000. San Luis Olispo Bituminous Rock Co., Saphalitum. Open ptt, 25,000 tons; hand. James Cormack, supt.
**	San Luis Obispo Bituminous Rock Co., San Francisco, Cal., 240 Montgomery St. A. C. Bosseft, prest.; J. A. Fairchild, Ingr. Cap., 84k, \$1,000,000. Bituminous rock, asphaltum. Open pit, 30,000 tons; hand, James Cormack, supt.
La Patera Santa Barbara (P. O. Santa Barbara) Ry. 692.	California Petroleum & Asphalt Co., San Francisco, Cal., 308 Market st. W. N. Cowles, prest.; A. C. Ferry, Seey.; Crocker Woolworth National Bank, treas.; W. T. Barton, ngr. Cap. stk, \$500,000. La Patera, Shaft, 20,000 tons; steam and hydraulie; nill. W. N. Bruce, supt.
Las ConchasSa, Barbara (P. O. Santa Barbara) Ry, Carpinteria 692.	California Petroleum & Asphalt Co., San Francisco, Cal., 308 Market st. W. N. Cowles, prest.; A. C. Ferry, seey.; Crocker Woolworth National Bank, treas.; W. T. Barton, mgr. Cap. 8tk, \$500,000. Las Conchas, Open, 20,000 tons; steam and hydraulie; mill. J. L. Stoner, supt.
Los AngelesLos Angeles Ry. 26, 692.	American Oil Co., Phillips Block, Room 4. W. E. De Groot, prest.; G. B. Griffin, seey.; University Baok, treas.; B. A. C. Stephens, ingr. Cap. 8fk. \$129,000. Roberts. Steam, horse and hand (developing), A. M. Jones, supt.
** **	Mrs. Ida Hancock. La Brea. Open pit, 1,000 tons; hand.
Santa Cruz Ry, 692.	Bitumen Consolidated Mining Co., Sau Francisco, Cal., 240 Montgomery st. A. Walrath, prest.; M. P. Doud, seey.; G. M. Perine, freas.; J. A. Fairchild, vprest, and mgr. Cap. stk. \$300,000. Asphaltum, Open pit, 25000 tons, land. Majors Bros., supts.
**	Santa Cruz Rock Pavement Co., San Francisco, Cal., 302 Montgomery st., Room s. A. Waltoth, prest.; M. P. Dond, Secy.; Pacific Bank, treas.; Geo. M. Perine, mgr. Cap. stk, \$150,000, Walroth, Open pit, 12,000 tons; horse and hand.

# Ventura Ventura Asphalt Co., San Francisco, Cal., 220 Sansome St., Room 59. Gen. T. B. Banting, prest, and mgr.; Frank A. Brooks, seey, and treas. Cap. stk. \$1,000,000. Ventura. Shaft and funnels, 2,000 tons.

	BORAX
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT,	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stocs, Name and Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, and Name of Mine Sufferingerdent.
TOWN AND COUNTY.	

Santa Maria (Sa. Barbara Santa Maria Asphalt Co. S. Kaiser, prest.; J. Kaiser, secy.; L. M. Kaiser, treas.; M. Maryanski, mgr. Ry. 551, 552. (Cap. stk. \$250,000). Open pit and shafts; horse,

Ry. 26, 692.	Cap. stk. \$1,500,000. Calico Borate. Shafts and tunnels; steam and horse. J. W. S. Perry, supf.		
COAL-BITUMINOUS			
LOCATION OF MINE, RAILWAYS, WATER KOUTES AND SHIPPING POINT, TOWN OND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICEES, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2400 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.		
Carbondale . Amador (P. O. Ione) Ry. Bun- kers 692.	Ione Coal & Iron Co., San Francisco, Cal., Fourth and Townsend sts. S. F. Gage, prest.; A. 4. Treat, secy.; Pacific Improvement Co., treas. Cap. stk. \$4,000,000. Mine 3. Slope, 25,000 tons; steau. Frank Frates, supt.		
Carmelite , Monterey (P. O. Pacific Grove) Ry. Carmel Bay 552,	Carmels Land & Coal Co., San Francisco, Cal. J. S. Emery, prest.; Wm. T. Baggett, seey.; Abner Dobje, treas.; Abner Bassett, mgr. Cap. stk. \$000,000, Carmels. Shaft, 1,000 tons; steam. Abner Bassett, supt.		
Coalinga , Fresno Rv. 692.	California Coal Co. F. Miers, prest, and freas.; Thos, R. Muir, seey, and mgr. Tinnel, 4,000 fons; hand- Robt, Ballantine, snot.		

San Joaquin Valley Coal Mining Co., Fresno, Cal., 944 1 st., 4. E. Rawlins, prest.; Edward Kountze, seey, and ugr.; Fank Central Cal., treas. Cap. stk., \$30,000. San Joaquin. Slope and funnels; steam. W. L. Priest Valley Monterey John Clayton. Ry. Alcada stat'noze.

Ry, Alcaida Stathoge.

San Diego San Diego City Lands Coal & Oil Co., 549 E st. M. A. Ferrer, prest.; F. H. Divon, seey.; Nevada Bank of San FranRy, Del Mar Stathog. cisco, treas.; Wm. H. Carlson, mgr. Cap. stk. \$100,600. City Lands. Shaft. Wm. H. Carlson, supt.

	COPPER
Location of Mine, Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF DUE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,001 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUFFRINTENDENT.
Ione Amador Ry, 692,	Newton Copper Co., San Francisco, Cal., £0 Montgomery St., Room 4. Horace D. Ranlett, prest, and mgr. W. R. Morton, seey.; Bank of California, treas. Cap. stk, £200,000. Newton, sulphuret. Shaft; steam furnace.
Spenceville .Nevada Ry, Wheatland 592.	Wochler & Pietzsch. Cap, \$25,000. Spenceville and others. Open pit; steam and water.
	GÖLD AND SILVER
Location of Mine, Railways, Water Routes and Shipping Point.	Name of Company of Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name of Mine, Kind of the Kind of Mine, annual Output in Toks of 2,00 Powns, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
Acton Los Angeles Ry, 692.	E. Beckman, W. W. Hollister, C. W. Cook and James Kelley, Santa Barbara, Cal. Padre, gold. Shaff free; steam; 2 stamps. Thomas Kelley, supt.
** .	E. B. Millar, Los Angeles, Cal., 439 S. Broadway. Red Rover, gold. Shafts and tunnels, 4,000 tons; free steam; 40 stamps. Ed. Brough, supt.
**	Mount Gleason Minling & Milling Co., Los Angeles, Cal., Station 26. A. F. Mackay, prest.; J. A. Jonesseey, and mgr.; Parmers & Merchant's Bank, treas. Cap. stk. 850,000. Mount Gleason, gold. Tunnels free and refractory; Steam's 53 tamps. J. A. Jones, Supt.
Altaville Calaveras (P. O. Angel's Camp) Ry, Milton 692.	Altaville Quartz Mining & Milling Co. B. R. Prince, mgr. Altaville, gold. Shaft; free; steam and water 8 stamps.
10, 1111001 632.	Eclipse Mining Co., San Francisco, Cal., 402 Montgomery st. David Sallield, prest.; Louis Bendel, treas Wm, Schmaedeke, mgr. Cap. 8th, \$1,000,000. Evening Star, gold. Shaft and tunnel; free; steam at water. James J. Schmaedeke, supt.
Amador City Amador Ry, Ione 692 (42 miles),	Bunker Hill Gold Mining Co., Philadelphia, Pa. Bunker Hill, gold. Shaft, 30,000 tons, free; water ar steam; 40 stamps. John Myers, 800t.
	Gold Mountain Mining Co., San Francisco, Cal., 213 Grant av. Frank M. Pivley, prest.; J. F. D. Curti- secy.; Bank of California, treas. (ap. slk. \$500,000. Gold Mountain, gold. Tunnels, refractory; wate 20 stamps. W. B. Farwell, supt.
	Grover Mining Co., San Francisco, Cal., 13 and 45 Fremont 84. J. S. Emery, prest.; R. McP. Doble, seey Angle-Culifornia Bank (limited), trens.; Jonas Call, mgr. Cap. 848, 84,000,000. Grover, gold. Shat 22,400 tons; free; water, steam and electricity; 20 stamps. A. B. Call, 840.
15	N. Hamberger, Gold, shaft, to tons; horse,
	Keystone Consolidated Mining Co., San Francisco, Cal., 310 Pine st. M. J. McDonald, prest, and mgr., H. Isham, seey, Paeille Bank, treas. Keystone, gold. Shafts, free, steam and water; to stamps. T. Hate, supt.
	South Spring Hill Gold Mining Co., Fitchburg, Mass. George F. Morse, prest.: Nahum Harwood, seeg. L. H. Goodnow, seey. Cap. (dk. 81,200,000). South Spring Hill and Tallsmain, gold. Shaft, 24,000 for free; water and steam; in stamps. J. R. Treglom, supt.
Angel's Camp Calaveras Ry, Milton 692, 22 miles	Angels, Quartz Mining, Co., San, Francisco, Cal., 42, Nevada Block, J.A., Coleman, prest.; E. F. Presto-seey.; T. J., Schuyler, treas.; G. H. Foy, Supt. and mgr. Cap. 8tk, \$20,000. Angels, gold. Shafts at timiles, free, water developing.
(20 miles).	Gold Hill Mining Co., Chicago, Ill., 67 Calmiet Bldg. S. V. Ryland, prest, and mgr.; W. G. Stephens, Sery Sam'l Brown Jr., treas. Cap. stk, 865,000. Gold Hill, gold. Slope, tunnel, 1,200 tons; free; water; stamus. S. V. Ryland, Subt.
**	Reminaton, Porter & Gates Mining Co., Watertown, N. V. E. M. Gates, prest., M. L. Cleveland, seey W. H. Porter, treas. Carson Creek, gold and silver. Shaft, 18,000 tons, free and refractory; water; stamps. E. W. Roberts, supt.
(22 miles).	E. K. Stevenot, Sonoma, Cal. Vanderbitt, Rothschild, Bright Star and Chaparral Hill, gold quartz. Tu- nels (developing): free and refractory, water, 8 stamps.
(20 miles).	Utica Mining Co., San Francisco, Cal., 224 California St. C. D. Lanc, mgr. and supt. Utica, gold. Sha 95,000 tons; free; water: 80 stamps.
	Corwin, Ough & Lozano, J. M. Ough, mgr. Mountain View, gold. Tunnel; refractory; water. G. Corwin, supt.
	Mammoth Bar Gold Mining Co. D. W. Lubeck, prest., R. L. Dunn, seey., Walter S. Davis, treas, at ugr. Cap, stk. \$1,000,000. Mammoth Bar, gold. Placer, water. Walter S. Davis, supt.
	Mina Rica Gold Mining Co. New York City, corner Fulton and Vassan sts. J. Q. Preble, prest, and mgr N. P. Hale, seev. V. A. Lewis, treas. Cap. stk. \$200,000. Mina Rica, gold. Shatt, free; water; stamps. J. W. McCullough, sngl.
	Stamps, J. W. McCamongai, sapt.  Charles F, Reed X E, L. Hubbard, Gold Blossom, gold, Shaft, refractory; water; 10 stamps, C. F. Recsup.
Bangor . Butte Ry, Honcut 692.	
	Blue Lead Gravel Mining Co., Gridley, Cal. R. E. Taylor, prest.; F. H. Mack, seey.; W. M. Brown, trea Samuel Grove, nigr. Blue Lead, gold. Shaft; steam. Samuel Grove, supt.
	The World Minima Co. Con Strong Discound Cold gold Short - Small temps on toping Harry Clare

supts.

Catskill Gravel Mining Co., Marysville, Cal. A. W. White, prest.; E. E. Meek, seey.; Wm. Klein, treas. Cap. stk. 8100,000. Catskill, gold. Shaft; steam; arrastre. J. D. Campbell, supt.

Banner. San Diego
Ry. Fosters 69

Banner Mining Co., Pomona, Cal. George Rhoren, prest.; Archae Thompson, seey.; National Bank, treas.
Cap. 8tk. \$200,000. Carcinnati Belle and 4 others, gold. Shaft and tunnel; tree, steam; 10 stamps. D.
C. Lane, supt.

Blue & Gold Mining Co. Cap. \$10,000. Blue and Gold, gold. Shafts; free; steam; 20 stamps. Hay & Clark.

#### GOLD AND SILVER-(CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Output is Toss of 2,00 Pounds, Kind of Power Used, Stand Mills, Erc., and Name of Mine Representements.
TOWN AND COUNTY.	
Banner San Diego (Continued.)	Irving L. Carl & A. E. Cowels, Cap. \$25,000. North Hubbard, gold. Tunnel, 800 tons; free; steam; 5 stamps. Irving L. Carl, supt.
	Ruby Mining & Milling Co., San Francisco, Cal., 406 Market st. L. E. Lee, secy., treas, and mgr. Cap. 8tk. \$50,000. Wilcox and Ruby, gold. Tunnel, 2,200 tons; free; steam; 5 stamps. L. E. Lee, supt.
21	Schapparrell Mining Co. W. W. Boswell, mgr. and supt. Schapparrell, gold. Shaft, tunnels, etc.; free; hand.
Bath Placer Ry, Colfax 692.	Breece & Wheeler, San Francisco, Cal., 1400 Post st. Judson Wheeler, secy, and treas. Cap. \$200,000. Gold. Tunnel, 12,000 tons; placer; steam and hydraulic; 10 stamps. W. H. Grenell, supt.
Bear Valley Mariposa Ry. Merced ('ity 692 (40 miles).	Burt & Bach, Cap, \$15,000. Green Stone, gold. Shaft; free; steam; 5 stamps.
11	Cathey Bros. Jubilee and Daisy, gold. Shaft and tunnel; free; water; arrastre.
	Mariposa Consolidated Mining & Milling Co., San Francisco, Cal., 224 California st. Col. Haward, prest.; C. T. Badge, seey.; Burl M. Fadden, mgr. Mariposa, Grant, gold. Shaft; free and refractory; water: 5 stamps. A. C. Hamilton, supt.
Benton, Mono Ry, 108.	Phornix Mining & Milling Co., san Francisco, Cal., Nevada Block, Room 69. John F. Millner, prest.; A. K. Purbrow, seey.; Bank of California, treas.; Arch. Farrington, mgr. Cap. stk, \$1,000,000. Phornix, gold. Shaft, tunnel and slope; free; steam; to stamps. A. Farrington, supt.
Bishop Inyo Ry, Poleta 108.	O. H. Hill & Co. Geo. F. Willis, mgr. and supt. Georgia, gold. Tannel, 20 tons; free; steam; 5 stamps.
Black BearSiskiyou Ry, 692.	Black Bear Quartz Mining Co., San Francisco, Cal., 230 California st. John Duggett, prest, and mgr.; J. F. Nesmith, seey.; Bank of California, treas. Cap. stk. \$3,000,000. Black Bear, gold. Tunnel; free; water; 22 stamps. John Daggett, supt.
Bodie	Standard Consolidated Mining Co., San Francisco, Cal., 340 Pine st. Thomas H. Leggett, prest, and mgr., I. W. Pew, seey, and treas. Cap. sts, 50,000,000. Standard Consolidated, gold and silver. Shaft and tunnel, fo.000 (ons; free; steam; 20 stamps. Thomas H. Leggett, supt.
	Jefferson Gold Quartz Mining Co., Marysville, Cal., P. O. Box 397. F. W. Johnson, prest,; G. W. Harny, seey.; Rideout Bank, treats.; A. J. Schultz, ngr. Cap. 8tk, \$100,000. Jefferson, gold. Shaft, 25,000 tons; free; steam; 10 stamps. A. J. Schultz, supt.
** **	Johnson, Swezy & Brown, Marysville, Cal. Dexter, gold. Shaft; free; hand.
Brownsville,	Reuben Clark, Cap. \$50,000. R. C., gold. Shaft and tunnel, 5,000 tons; free and refractory; water; 10 stamps. J. C. Campbell, supt.
** =	Johnson Mining Co. R. M. Johnson, prest, and seey.; H. A. Conwell, treas.; R. W. Emerson, mgr. Cap. 82,000. Johnson, spid and silver. Shatt and tunnel, 2,000 tons; free and refractory; water; 5 stamps. R. M. Johnson, supp.
	T. H. Steel. Cap. \$50,000. Gold. Placer; hydraulic.
Butcher Ranch Placer Ry, Auburn 692.	Gray Engle Mining Co., San Francisco, Cal., 33 California st. H. W. Gray, prest.; A. W. Barrows, seey., Wells-Fargo Bank, treas.; T. G. Durning, mgr. Cap. stk, \$1,000,000, Gray Engle, gold, Placer, tunnel, shaft and slope; steam; 10 stamps. T. G. Durning, supt.
** **	Spring Garden Mining Co., San Francisco, Cal., 737 Ellis st. J. A. Widber, prest.; A. C. Widber, seey.; Wells, Fargo & Co., S Bank, treas. Cap. stk, \$1,000,000. Spring Garden, gold. Slope and tunnel; placer; steam and water. Geo. F. Stone, supt.
Butte Valley Plumas Ry, Chico 692.	
	Butte Valley Mining Co, Cap. stk. \$3,000. Butte Valley, gold. Tunnel and placer; water. C. H. Lee, supt.
	A. N. Cameron, Cap. \$7,000. River View, gold. Tunnel; placer,
** ** ** ** ** ** ** ** ** ** ** ** **	James Firmstone, Daisy, gold, Placer, 3,000 tons; hand.
44	N. Meadows, Cap. \$3,000. Allen Cove, gold. Tunnel.
84	A. G. Rupe, Cincinnati Hill, gold. Placer.
	Teodor Willner, Jawbone Flat, Cal. Cap. \$3,000. Lulu, gold. Placer; tunnel; hand.
Calico San Bernardino Ry, Daggett 26,	
44	Thomas Gray. Lue Mine, silver. Tunnel, shafts and slopes; free; hand; 10 stamps. J. L. Porter, supt.
	Fred Heber, Hyena, silver, Tunnel; free; hand.
**	Silver King Mining Co., Ltd., London, Eng., 3 Great Winchester st. W. Hosking Ashlin, seey. Oriental Group and 3 others, silver. Shafts, tunnels, slopes and drifts, 36,000 tons; free; steam; 30 stamps. Win. S. Edwards, supt.
**	Tracy N. Stebbins, Silver, Shaft and tunnels, 2,500 tons; free; steam; 5 stamps,
*	Waterloo Mining Co., Milwankee, Wis, C. M. Sanger, prest.; W. H. Metealf, seey.; C. T. Bradley, frees.; E. A. Sanger, mgr. Macketholo, Silver King and others, silver. Shafts and tunnels, 75,000 tons; free; steam; T5 stamps.
Calistoga Napa Ry, 692.	a Knapp Consolidated Mining Co. J. D. C. Knapp, prest.; W. D. Smith, seey.; P. M. Schelg, treas. Capstle, Spongoon, Mt. View, Cleveland, Nellie, Silver Vein and Smith, gold and silver. Tunnel and slopes, 10,000 tons; free.
11	Patisule Mining Co. R. F. Grigsby, prest, treas, and mgr.; R. A. Grigsby, secy. Cap. stk. \$500,000.

GOLD AND SHLVER (CONTINUED).			
RAILWAYS	NATER I	ROUTES	NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,40 POUNDS, KIND OF POWER USED, NTAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Campo Se	eo Ca alley Spri	laveras	Venus Quartz Mining Co. James Cory, seey.; A. R. Summer, mgr. Venus, gold. Tunnel, 400 tons; refractory, hand; 10 stamps. C. Puger, supt.
Cariboo . (P. O.	, Butte		William Wilson. Gold. Tunnel; hand.
Ry, e Carrville.	692,	Trinity	J. E. Carr. Cap. \$40,000. Nash, gold. Placer; hydraulic.
		. **	Strode & Bander, Cap, \$10,000. Oro Grande, gold. Tunnel, 5,000 tons; free, water; 5 stamps.
Carsons (P. O. Ry.)	Ca Angels' Milton 69:	Campi	Joseph Canepa, Canepa, gold. Shatt; free and refractory; hand.
Cerro Gor			H. B. Boland. A nion Jack and Protection, silver and lead. Tunnel; hand.
**			Thomas Boland. Cap. \$5,000. Union and Enterprise, silver and lead. Shaft, 800 tons: refractory; steam
** .		**	J. Donerley & C. Benton. Cedar, silver. Slope: free; hand.
		**	John Dumphy. Morning Star and Phoenix, gold, silver and lead. Shaft, 4,000 tons; refractory; horse and hand.
**			W. L. Hopkins & M. Carey. Faith and Hope, silver and lead. Shaft; refractory.  Union Co. Carson City, Nev. B. M. Verington, prest. G. E. Ford, seev.; Wells, Fargo & Co.'s Bank.
Athen less		1144	Union Co., Carson City, Nev. H. M. Verlington, prest.; G. P. Ford, seey.; Wells, Fargo & Co.'s Bank, treas. Cap. stk. \$0,000,000. Union, silver and lead. Shaft and funnel, 250 tons; refractory.
Cherokee Ry, Cl	hat 49i.	mitte	T. F. Emmons, Greenville, Cal. Altona, gold. Tunnel, 1,500 tons; free; water; 10 stamps.
**		**	F. Sutton & Wm. Symons, Sonora, Cal. Cap. stk. \$5,000. Carlotta, gold and silver. Shaft, 500 tons: free: horse. Wm. Symons, supt.
Ry. 69	12.		Hard Tack Mine. John Long, mgr. Gold. Shaft, tree.
Cleveland (P, O ders	Ono) I son 692.	Trinity ly. An-	Cleveland Consolidated Mining Co., Red Bindt, Cal. R. G. Hart Jr., prest.; Gen. N. P. Chipman, seey.; Tehana Co. Bank, treas. Cap. six, \$50,000. Bully Choop and Cleveland, gold and silver. Tunnels, 4,500 tons; free and refractory; steam, to stamps. R. G. Hart sr., supt. and mgr.
Clinton Ry, C; 781,	arson City	Mono Nev.,	Interstate Consolidated Minling Co., Bridgeport, Cul. A. F. Bryant, prest.; J. D. Murphy, seey.; J. A. Brown, treas.; A. F. Sayre, mgr. Cap. stk. \$00,000. Interstate, gold and silver. Shaff and tunnels, 50 tons; retractory, hand. A. F. Sayre, supt.
43		43	Mineral Chief Consolidated Midnig & Milling to., Bridgeport, Cal. A. F. Bryant, prest; W. O. Parker, sery, Henry Williams, treus, T. C. Sharpe, angr. Cap. 8tk, \$150,000. Mineral Chief, gold. Shaft and funnel; free: horse, T. C. Sharpe, supt.
** .			Rattler Mining Co. Rattler, gold. Tunnels.
Coarse Go	old Galch		John H. Sheehan. Summers and Kintuck, gold and silver. Tunnels, free; steam; 5 stamps.  McKenzic K Rule. Last Chance, gold. Free; steam; to stamps.
Ry. R	aymond 6		
* .		. **	Waterloo Gold Mining Co., San Francisco, (al., 48 Pest 8t. M. Lambeth, prest.; J. Murray Bailey, seey., treas, and mgr., cap. stk. 82,000,000. Paymaster an l'Alpha, gold. Tunnels and shafts, 4,000 tons; free: steam; no stamps. J. D. Beam, supt.
Coles Ry, 69	S 12 (10 mile	iskiyon 8).	E. T. Bartlett. Ranger, gold. Shaft, tunnel and open pit, 70 tons; free.
		6	Patterson Bros. & Payne. Wm. Patterson, mgr. Patterson, gold. Water.
** .		. "	G. D. Willey, Hornbrook, Cal. G. D. Willey, prest, and mgr.; A. P. Hill, seey.; C. P. Baumgardner, treas, Cap. \$025,000. Lonisiana, gold. Placer; water and hydraulic. Wm, Casey, supt.
Colfax : Ry : 69	12,	Placer	Henry McManus, New York City, 41 Wall st. Rising San, gold. Shaft; free; steam; 20 stamps. W. F. Pierce, supt.
Columbia Ry, O	akdale 26	olumne	$Conlin \& \ Graham, \ Enterprise, gold. \ Shafts \ and \ tunnels; free; \ water; \ 4 \ stamps. \ Angus \ 8, Graham, supt.$
			Engelke & Co. J. D. Engelke, mgr. Experimental, gold. Shaft and funnel, 1,500 tons; free; water: 10 stamps.
**		**	Last Chance Mining Co. Last Chance, gold. Open pit; free and refractory; steam; 5 stamps. L. C. Tibbits, supt.
**		**	Noonday Mining Co., Oakdale, Cal. J. W. Woodside, prest, and treas,; A. S. Dingley, seey.; F. H. Warner, mgr. Cap. stk. \$15,000. Noonday, gold. Shaft and slopes, 500 tons; free and retractory; steam; 3 stamps. F. H. Warner, supt.
** .		2.5	Louis Page X Co. Golden Era, gold. Shaft, 1,000 tons; free; water; 5 stamps. Louis Page, supt.
**		11	Tibbits & Green. Last Chance, gold. Shatt; free; steam; 5 stamps. L. C. Tibbits, supt.
			Vine Spring Mining Co., C. B. Tilley, prest,: F. H. Tyler, seey.; J. B. Barnett, treas.; F. L. McPherson, mgr. Cip. Stk. 85006. Vine Spring, gold. Shaft and tunnel, 3,000 tons; free; water; 10 stamps. F. L. McPherson, supt.
Copley Ry, 50		.Shasta	Balaklala Mining Co., Redding, Cal. S. Weil, prest.; A. C. Ellis, mgr. Balaklala, gold and silver. Shaft and tunnel; free and refractory. A. C. Ellis, supt.
		6.6	Polar Star Mining Co. Cap. \$1,500. Polar Star, gold. Tunnel, 1,000 tons; refractory. W. W. Nichols, supt.
			Henry Rulling. Indian Queen, gold. Tunnel, 300 tons; free; water; arrastre.

" Van de Veer & Bullard. Seoteh Chief and Santa Clara, gold. Tunnel, 1,500 tons; free; water,

#### GOLD AND SILVER-(CONTINUED).

Location of Mine, Railways, Water Routes and Shipping Point.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore. Kind of Mine, Asnual Outfut is Toss of 2,000 Potnes, Kind of Fower Used, Stamp Milles, Etc., and Name of Mine Superinferdert.
Town and County.	·
Copperopolis,Calaveras Ry, Milton 692,	Haggin & Hearst, San Francisco, Cal., 51 Nevada Block. Irwin C. Stump, seey, and treas.; August H. Schnabel, mgr. Hicem, gold. Tunnel; steam; mill. August H. Schnabel, supt.
Cottage Grove . Siskiyou Ry, Yreka 692.	Thomas Dobbins & Fred Martin, Cap, \$2,000, Dobbins, gold, Placer; hydraulic,
11	George Ten Eyck, Cap, \$15,000, Gold, Placer; hydraulic.
** ** ** ** ** ***	H. Wm. Thomas, Gold. Placer.
Coulterville Mariposa Ry. Waterford 692.	P. P. Mast, Springfield, Ohio. P. P. Mast, prest.; C. L. Mast, secy., freas, and mgr. Cap. \$120,000. Banderita, gold and silver. Tunnel; free; water; 10 stamps. C. L. Mast, supt.
" "	Tyro Mining Co. F. C. Jarvis, prest.; N. W. Crocker, seey, and treas.; Charles Sutherland, mgr. Tyro, gold. Shaft, 7,200 tons; free, refractory; steam; 10 stamps. Charles Sutherland, supt.
"	Virginia Mining Co., Springfield, Ohio. J. W. Crowell, prest, and secy.; C. L. Mast, mgr. and supt. Cap. stk. \$50,000. Virginia, gold, silver. Shaft, tunnel, slope; free; steam; 10 stamps.
Crescent City Del Norte Ry, 552,	W. Engley & Wagner Co. A. W. Engley, prest.; C. M. Wagner, seey, and mgr.; H. Stowe, treas. Myrtle and Smith River, gold, silver and copper. Open, placer; water. C. M. Wagner, supt.
Cuyamaca . San Diego Ry, Lakeside 649.	Estate of R. W. Waterman, Waldo S. Waterman, mgr. Stonewall, gold. Shaft, 25,000 tons; free; steam; 20 stamps. Waldo S. Waterman, supt.
Daggett, San Bernardino Ry, 26,	8, P. Blade. Sampson, silver. Free and refractory.
**	Clark Bros. Queen of the Desert, Mammoth Chief and Meteor, gold and silver. Free; steam. F. L. Clark, supt.
	William Hyten & H. T. Smith. Wanderer, gold. Free.
**	Riggs & Campbell. Banner, Dandy and others, gold and silver. Shaft and tunnel; free; hand. Frank Riggs, supt.
**	Riggs, McMahon & Riggs, New Year's Gift and others, gold, silver and lead. Tunnel; refractory; hand. Frank Riggs, supt.
Damascus Placer Ry. Colfax 692 (23 m.).	Golden River Mining Co., Paris, France, 24 Place Vendome, M. Desmaisons, mgr., Cap. 8tk. \$318,450. Golden River, gold. Tunnel and slope, 36,000 tons; free; steam and horse. Chas. T. Hoffman, supt.
" »	Pioneer Mining Co., San Francisco, Cal., 239 Montgomery st. L. C. Bresse, secy. Pioneer, gold. Tunnel, 8,400 tons; free; water; 20 stamps. D. J. Sullivan, supt.
Darwin	J. A. MacKenzie. Lucky Jim and Christmas Gift, silver, lead. Shaft and tunnel; refractory; steam.
**	Phornix Mining Co., San Francisco, Cal., 314 California st. Silver and lead. Slope, 100 tons; refractory; horse. Max Schoen, supt.
**	P. Reddy, San Francisco, Cal., 330 Pine st. Geo. H. Hardy, seey. Defiance and Independence, gold, silver and lead. Shaft and tunnel, 800 tons; refractory; steam. E. A. Reddy, supt.
4.6	Chas, Richardson. Cap. \$1,000. Good Hope, gold, silver and lead. Shaft and tunnel, 50 tons; refractory; hand.
Deadwood Trinity Ry.Redding 692(28 m.).	J. T. Brown. Gold. Placer; hydraulic and arrastre.
**	Brown Bear Mining Co. F. O. Hollingsworth, mgr. Brown Bear, gold and quartz. Tunnel, 6,000 tons; free; steam; 15 stamps. G. E. Sargeant, supt.
**	Mrs. Mary Falan. Vermont and Sir John, gold. Tunnel, 100 tons; free; steam; mill.
**	Harkness Mining Co. Harkness, gold. Tunnel. J. H. Frissell, supt.
**	James Kelly. Emmet, gold. Tunnel; free; water, arrastre.
	Lila Mining Co. Lila, gold. Tunnel; free; steam; 10 stamps. Theo, Gruss, supt.
	D. O. Morchead, Forest Hill, Cal. Cap. \$6,000. Center, gold. Tunnel and slope; free; horse.
Descanso , San Diego Ry,Lakeside 649 (23 m.),	Thorne Bros. Two Brothers, gold. Tunnel and shaft; free. Charles Ellis. Independence, gold. Shaft and tunnel; free.
ng. tarkeside (6.7 (2.5 Hr.).	T. Noble & Sons. Eureka, gold. Tunnels and shafts; free; water; 2 stamps.
25	Dan, Oneil, Gold, Shaft (developing); free; water.
"	Gilbert L. Scybold. Cap. \$1,200. Cascade, gold. Shaft and open pit, 15 tons; free; hand and water. G. L. Scybold, supt.
Diamond Spg., El Dorado Ry, Diamond 692,	
Dillon Siskiyon (P. O. Cottage Grove) Ry, Yreka (32,	Halvorson & Lard, Cap. \$6,000. Horse Shoe Bend, gold. Placer; hydraulic, A. Halvorson, supt.
Placerville 692.	Wiley Sexton. King, gold. Placer; hydraulic.
	Black Hawk Gravel Mining Co., San Francisco, Cal., 1010 Washington st. James Brodie, prest, and ugr.; Samuel D. Simmons, seey, and treas. Cap. stk, \$100,000. Black Hawk, gold. Open, placer; water.
	Gold Bluff Mining Co., New York City, 64 College place. John H. Piper, prest.; Putnam Conklin, seey.; A. E. Williams, treas.; Wm, Kraff, mgr. Cap. stk., \$560,090. Gold Bluff, gold. Tunnel, 18,000 tons; free; water; 20 stamps. William Kraft, supt.
	Budded Mining Co. Largen Cate Nov. Con T. Willy you be S. D. Nature and M. Calin france W. W.

Red Oak Mining Co., Carson City, Nev. Geo, T. Mills, prest.; S. R. Noyes, sery.; M. Colin, Ireas.; W. W. Mason, mgr. Cap. stk. \$5,000,000. Red Oak, gold. Tunnel, placer; hand. W. W. Mason, supt.

Town

El Dorado

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

Ry. Fresno 25 miles.

El Foro Ora Ry, McPherson 26.

Flat Creek Shasta (P. O. Cordey) Ry, 545.

Ry. Oroville 692 (25 m.).

COUNTY

Butte

#### GOLD AND SILVER (CONTINUED).

J. M. Vandegrift. Los Padrie, gold. Shaft; free and refractory; water,

Beehive Mining Co. Beehive, gold. Shaff and funnel; free, steam, 8 stamps,

Fresno J. W. Coffee, Cap. \$6,000. Homestake, gold, Placer,

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICE B, CAPITAL STOCK,

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL DUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Moore & Davis. Oro Fino, gold. Shaft and tunnel, 109 tons; refractory; wafer, arrastre. S. C. Moore, supt.

El Dorado Church Gold Mining Co., San Francisco, Cal., 303 California st. Thos. R. Church, prest.; A. W. Barrows, seey.; W. W. Montagne, treas. Church, gold. Shaft and lunnels, 7,000 tons; free; water: 10 stamps. James Richards, supt.

Orange Santiago Canyon Silver Mining Co., Los Angeles, Cal., 45 Bryson-Bonebrake Block. R. S. Law, presl.; W. A. Vandercook, seey., treas, and mgr. Cap. sik, \$2,000,000. Santiago Canyon, gold and silver. Shafts, mmels and slopes, Lobo lons; refractory; water and hand; ernshers and concentrators. T. D. Hoxey.

Shasta Morton & Moores Gold Mining Co., Copley, Cal. T. P. Mitchell, prest.; Luke Mitchell, secy., Omar Morlay, 545.—ton, treas.—Golden Calf, gold.—Shaft and tunnel; free, water.

Mrs. M. A. G. Blake. Beehive and Extension, gold. Shaft and tunnel; free, steam, 8 stamps.
Carlisle & Boggs. Carlisle, gold and silver. Open pit and funnel, refractory, water. J. O. Carlisle, smit.

Edison Mines. Edison, gold and silver. Tunnel: free. A. R. Harrison, supt. and mgr.

Kendall & Roberts. Garden Ranch, gold. Placer; water. A. F. Roberts, supt. and mgr.

Bazar, Hayward X Vall, San Francisco, Cal., 224 California st. A. Hayward, prest, seey, and treas. Sutters, gold and silver. Shaft, free; water; to stamps. H. E. Vail, supt. and mgr.

Col. A. Hayward, San Francisco, Cal., 224 California st. Shakespeare, gold and silver. Shaft, 4st fons, free; steam; 40 stamps. G. W. Price, supt.

W. W. Stow, San Francisco, Cal., 408 California St., Gold Bank, gold and silver. Shaft and Junnel, 32,859

	tons, tree and refractory, water; 40 stamps and concentrator. Harry P. Stow, supt.
Forest City Sierra Ry, Nevada 490 (40 m.).	Bald Mountain Extension Gold Mining Co., Downieville, Cal., Robert Forbes, prest.; J. W. Orear, secy. and treas. Cap. stk. 8800,000. Bald Mountain, gold. Tunnel. Win. Meikle, supt.
Forest HIII . Placer Ry, Colfax 692.	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
	May Flower Gravel Mining Co., San Francisco, Cal., 330 Pine st., Room 18. Feliv Chappellet, prest.; D. M. Kent, seey., Bank of Califernia, trens. Cap. 8tk, 85,000,000. May Flower, gold. Tunnel, 30,000 tons, tree; steam and water; 20 stamps. Harold T. Flower, supt.
	Chas, F. Reed. Drummond, gold. Shaft and tunnel, 5,000 ton., free; steam, mill,
Fort Jones Sisklyon Ry, Vreka 692.	Allen Bros, Co., Quartz Valley, Cal. Thos, Allen, prest.; H. S. Mathews, seey.; A. B. Carlock, treas.; Edward Allen, mgr. Cap. stk. Sagono. Green Mountain, gold. Shaft and tunnel, 800 tons, free, steam; Ito-tamps, John P. Dec, supt.
French Gulch. , Shasta Ry, Redding 692,	Wm. Brown. Sibyl, gold. Free and refractory: water; mill.
	Gladstone Mining Co., Cleveland, Olifo, 29 Enelld av. (B. F. Powers, prest., F. C. Benn's, seey, and treas.; C. J. Clark, mgr. (Cap. Stk. \$120,00). Gladstone, gold. Tunnel, 15,00) tons, steam and water, stamp, C. J. Clark, supt.
Garden ValleyEl Dorado Ry. Placerville 12 m.). Auburn 692 (14 m.).	Idlewild Gold Mining Co., San Francisco, Cal., 306 Pine 8t. Wm. S. Chapman, prest.: Edw. F. Stone, seey; Augho-Californian Bank, freas.; E. W. Chapman, mgr. Cap. 8tk, \$1,000,000. Idlewild, gold. Shaft and slope, 25000 fons; free; water, 20 stamps, E. W. Chapman, supt.
	Rozecrans Mining Co., San Francisco, Cal., 39 Merchants' Exchange. H. S. Robinson, prest., A. E. Ball, seey, and treas; H. S. Morey, ingr. and supt. Cap. sik, \$60,000. Rozecrans, gold. Slope (developing), free; steam; 40 stamps.
Genesee Plumas Ry, Reno, Nev., 692.	Genesec Valley Gold Minne Co., San Francisco, Cal., Neva ia Block. Joseph Gruss, prest., treas, and mg., Jacob Stattfeld jr., seey. Cap. 808, \$100,000. Genesec gold Shaft, 4,000 tons, free; water, to stamps. Joseph Gruss Sapt.
66 . 55	Graham Brown & Veung, Augustus Graham mg). Green Ledge gold silver and copper. Tunnel; hand and water, arrastre
Gleneoe t alayeras Ry, Valley Springs (99 (30 miles).	Banner Gold Mining & Millin CC., San Francises, Cal., 205 Fillmore St., R. H. Webster, prest, seey, and treas. A. J. Rhedes mer., Cap. stk, \$ 000000. Banner, gold. Shaft 8,500 fons. steam, and water; 8 stamps. A. J. Rhodes, supt.
", " <u>"</u> ,	Industrial Mining & Milling Co., San Francisco, Cal., 20 Montgomery St. D. R. McIntosh, prest, and mgr.; I. B. Garffand, seev.; C. Shea, troas. Cap. stk. 8500,000. Industrial, gold. Shaft, 20 tons; free, steam, in stamps. D. R. Melntosh, supt.
Gold Rock Camp S, Diego Ry, Ogifby 692,	Frank C. Voung & Thomas Johnson. Gold Rock, gold. Shaft and tunnel, 40,000 tons; free; steam. Thos, Johnson, supt.
Gorman's Stati'n.Ventura Ry, Lancaster 692,	Frazier Mining Co., Los Angeles, Cal., First National Bank Bidg. John D. Bicknell, prest.; Frank Conant, seey.; First National Bank, treas. Cap. stk. \$100,000. Frazier, gold. Shaft and funnel; free and retractory steam; mills. Geo. Glesson, supt.
GranitevilleNevada Ry. Nevada City, 490, 28 miles.	Gaston Ridge Mill & Mining Co., San Francisco, Cal., 312 Sacramento st. F. M. Cartan, prest., John F. Nugent, seey.; T. McCarty, trens.; P. Foley, mgr. Cap. stk. \$1,000,000. Gaston Ridge, gold. Tunnel, 8,000 tons; free; stem; 05 stamps. Patrick Foley, supt.
	John Hipperf. Liberty, Pope and Hot Water, gold. Tunnel and shaft, too tons; free; water, 2 arrastres; 2 stamps.
0.00	Ozalli Bros. Chattanooga, gold; 200 tons; free; hand, mill.
4	T. Staples. Gaston Ridge, gold. Tunnel and shaft; free; water and steam; to stamps.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICEIR, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Grass Valley Nevada Ry, 490.	Allison Ranch Ford, Martin Ford, prest, and mgr.; J. E. Carr, secy. Cap. stk. \$2,500,000. Allison, gold. Shaft; free, Martin Ford, supt.
0	Baltic Consolidated Mining Co. E. Mateson, prest.; D. D. Bowman, secy.; Citizens' Bank, treas.; Joseph Snyder, mgr. Cap, stk. \$600,000. Baltic, gold. Tunnel; free; water; mill. Joseph Snyder, supt.
**	Boston Mining Co. Bennett Dunstan, prest.; M. McDonough, seey, and treas.; Thomas Opic, mgr. Cap. stk. \$60,000. Granite Hill, gold. Shaft and slope; free; water. Thomas Opic, supl.
44	California Mining Co. Charles E. Uren, prest.; J. W. Thomas, secy.; Citizens' Bank, treas. Cap, stk. \$100,-000. California, gold and silver. Shaft, 700 tons; free; steam; 5 stamps, mill. James Glugas, supt.
44 45	William Campbell, Norambaqua, gold, Shaft; free; steam and water.
"	Centennial Quartz Mining Co., Samuel Granger, prest.; Jacob Weissbein, seey.; Weissbein Bros, & Co., treas.; A. W., Stoddart, mgr., Cap. stk., \$500,000. Centennial, gold., Shaft; free; steam., A. W. Stoddart, mgr.
	Central North Star Mining Co. J. R. K. Nuttall, prest.; Jacob Weissbein, seey.; Weissbein Bros, & Co., treas. Cap. stk. \$1,000,000. Central North Star, gold. Shaft; steam. James Bennallack, supt.
0 . 9	John C. & Edward Coleman & Geo. D. McLean, Lucky Quartz, gold. Slope; free.
	Crown Point Consolidated Mining Co. A. Gauthier, prest., treas, and mgr.; J. J. Rodgers, seey. Crown Point, gold. Shaft, 10,000 tons; free; water; 10 stamps. A. Gauthier, supt.
44	Daisy Hill Mining Co. Daisy Hill, gold. Shaft; free; steam and water. Frank Morse, supt.
	Gold Bar Quartz Mining Co. W. F. Corwin, prest.; W. H. Weldon, secy, and mgr.; Wm. George, treas. Cap. stk, \$1,000,000. Gold Bar Quartz, gold. Shaft; free; steam and water. W. H. Weldon, supt.
	Gold Point Consolidated Gold & Silver Mining Co. S. Granger, prest.; A. B. Brady, seey.; Watt & Co. treas.; Janes Bennallack, ngr. Cap. stk, \$50,000. Gold Point, gold. Shaft and tunnel; free; water, Jas. Bennallack, spt.
**	Golden Treasure Mining Co. Mrs. F. Sauvee, treas.; Frank Dulmaine, mgr. Golden Treasure, gold, Steam. Frank Dulmaine, supt.
** 0	Green Mountain Gold Mining Co. Wm. George, prest.; Elam Biggs, seey, and treas. Cap. stk. \$300,000, Green Mountain, gold. Shaft; free; steam.
44 45	Hartery Consolidated Mining Co. Geo, W. Whiteside, prest.; J. McThomas, secy.; Citizens' Bank, treas.; Geo, Mainhart, mgr. Cap. stk. \$1,000,000. Hartery, gold. Free; steam. Geo, Mainhart, supt.
" = "	Idaho Quartz Mining Co. Edward Coleman, prest, and ngr.; Geo. W. Hill, secy.; John C. Coleman, treas. Cap. sdx, 831,000. Idaho Quartz, gold. Slope, 16,000 tons; free; water; 40 stamps. Edward Coleman, supt.
	Frish-American Mining Co. Martin Ford, prest, and mgr.; John Mulroy, secy. Cap. stk. \$2,500,000. Trish-American, gold. Shaft, 50 tons; free; horse; mill. Martin Ford, supt.
**	J. M. Lakeman. Spring Hill and Extension, gold, Slope; free; steam,
44 44 44	McGuire & Biggs Placer Mine Co. Gold. Placer; free.  Maryland Cold Muning theat's Co. S. P. Dorsey prost and more J. V. Dorsey your and trens. Can.
	Maryland Gold Muning Quartz Co. 8, P. Dorsey, prest, and mgr.; L. V. Dorsey, seey, and treas. Cap. stk. \$10,000,000. Maryland, gold. Shaft and funnel; free; water. 8, P. Dorsey, supt.
**	Menlo Mining Co. J. M. Lakeman, prest, and mgr.; Peter Johnson, secy.; H. Silvester, treas. Cap. stk. \$15,000. Honeward Bound, Illinois and Wisconsin, gold. Slope, 900 tons; free; sleam; slamps. J. M. Lakeman, supt.
	New Eureka Consolidated Gold Mining Co., San Francisco, Cal., 302 Montgomery st. John Skinker, prest.; A. Walrath, treas, and ngr. Cap. stk. \$1,000,000. Eureka, gold. Shaft; steam. A. Walrath, supt.
** _ **	North Star Mining Co., San Francisco, Cal., 401 California st. James D. Hague, prest.: D. A. Jennings, secy.; Bank of California, treas.; Emile R. Abadie, mgr. Cap. stk. \$1,000,000, North star, gold. Slope, 18,000 tons; free; water; 40 stamps. Emile R. Abadie, supt.
44	Omaha Consolidated Gold Mining Co., San Francisco, Cal., Phelan Bldg. E. W. Hopkins, prest.; C. A. Grow, seey, and freas.; L. Gilson, ngg. Cap. slk. \$2,400,000, Omaha, gold. Slope, 9,000 tons; free; water; 28 stamps. George Mainhart, supt.
**	Original Empire Mining & Milling Co., San Francisco, Cal., 401 California st. Jas. D. Hague, prest.; D. A. Jennings, seey.; Bank of California, treas.; Geo. W. Starr, mgr. Cap. stk. \$1,000,000. Empire, gold. Slope, 18,000 tons; free; water; 40 stamps. Geo. W. Starr, supt.
**	Osborn Hill Mining Co. William Campbell, prest, and treas.; George Campbell, seey. Osborne Hill, gold. Shaft: free; steam,
**	Seven-Thirty Mining Co. James McLachlan, prest.; J. M. Thomas, secy.; Citizens' Bank, treas.; Cap. stk. \$50,000. Seven-Thirty, gold. Shaft, 300 fons; free; steam. J. McLachlan, supt.
44 44	State Ledge Mining Co. State Ledge, gold. Tunnel, 24,000 tons; free; water; 10 stamps. A. L. Perrin, supt.
14 P	Telegraph Mining Co. James Zawaskie, prest.; John F. Sullivan, seey.; T. J. Hurley, treas.; M. O'Connell, mgr. Cap. stk. \$865,000. Telegraph, gold. Shaft, 6,000 tons; free; steam; 5 stamps. Jas. Zawaskie, supt.
" " " "	H. Uphoff. Washington, gold. Slope, 2,500 tons; free; steam and water.
**	Vulcan Mining Co. Martin Ford, prest, and mgr.; M. McDonough, secy. Cap. 8tk. \$2,500,000. Vulcan, gold. Shaft, 30 fons; free; horse. Martin Ford, supt.
	Western Star Gold & Silver Mining Co., San Francisco, Cal., Safe Deposit Bidg., Room S., Juo. S. Ott, prest.; Juo. A., Reed., sev.; Gustav Kartschoke, treas.; F. Zeiller, mgr., Cap., Sta., gold, and silver. Shafts and tunnels; free; steam and water. F. Leitber, supt.
	White Oak Gold Mining Co. J. J. Orr, prest.; Jnc. Cadden, seey.; E. McCann, treas. White Oak, gold. Shaft and (unnel; free; steam. J. J. Orr, supt.
	Williams Bros. Deer Creek, gold. Tunnel and shaft: free; hand. Richard Williams, supt.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore. Kind of Mine, Annual Output in Toss of 2,00 Pounds, Kind
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Grass Valley Nevada (Continued.)	Work Vonr Own Diggins Mining Co. J. R. K. Nuttal, prest; Jacob Weissbein, seey.; Weissbein Bros., treas; C. A. Brockington, mgr. Cap. stk. §50,000. Work Vonr Own Diggins, gold. Shaft and incline, 4,000 tons; free; steam; 10 stamps. C. A. Brockington, supt.
44	Wyoming Consolidated Mine, B. F. Runnels, prest.; W. E. Parsons, seey.; Citizens' Bank, treas, Cap. stk. \$500,000, Wyoming, gold, Slope; free; steam, B. F. Runnels, supt.
Gray Eagle Bar, El Dorado (P. O. Michigan Bluft Ry, Forest Hill 692.	Thomas McCall, Cap. \$20,000. McCall, gold. Tunnel; free; hand. John Page, supt.
Green Valley El Dorado Ry, Shingle Springs 692,	Pyramid Mining & Milling Co., San Francisco, Cal., 173 Bailread av. Chas, Milly, prest.; Geo. W. Harvey, seeg.; J. W. Hodgkin, treas: W. H. Harvey, mgr. Cap. stk. \$1,000,000. Pyramid, gold. Shaft; refraetory; water and steam: 5 stamps. Will H. Harvey, supt.
Greenville	Blind Lead Mining Co. D. McIntyre, mgr. Blind Lead, gold. Tunnel; free.
Boundary of the Control of the Contr	McGill & Standart. Gold. Tunnel and shaft, 3,300 tons: free; water; 20 stamps. G. Standart, supt.
Greenwood,El Dorado Ry, Auburn 692,	Jacob Baessler, Vankee Bar, gold, Placer; water,
*4	A. Bellacorta, Berance, gold, Open pit; hand,
* *	Martin Blelbtrew, Invisible, gold, Tunnel, placer; water,
	Win, Bordt, Flora, gold, Tunnel, 10 tons; free; hand,
** **	Samuel Kalser, Ohio, gold. Shatt, free, hand, L. E. P. Lachance, Oakland, gold. Shafts, tunnels and pits; free; hand,
*	Osborn Gold Mill & Mining Co., San Francisco, Cal., 308 Pine st. W. E., Lamb, prest.; W. J., Garnett, seey.; Wells, Fargo & Co., Bank, treas. Cap., stk., \$500,000. Trimmph, Execlsior, Donozo, gold. Tunnel and shaft; water. Frank W. Page, supt. and osborn.
	Revenge Mill & Mining Co., Philadelphia, Pa., 220 S. Fourth St. Revenge, gold. Tunnel and open pit; free; water; 5 stamps.
Grizzly Flats. , El Dorado Ry, Placerville 692.	MeAfee, Missamore & Poor, Mount Pleasant, gold. Tunnel, 300 tons; free; steam; 40 stamps.
*********************************	Middle Creek Gravel Mining Co., Sacramento, Cil. 2022 I st. C. T. Robb, prest., B. F. Parsons, seey, and treas; S. A. Lafne, mgr. Cap. 8tk, 8255,000. Middle Creek, gold. Tunnel; free; steam. S. A. Lafne, supt.
31 41 41	E. R. Morey, Cap. \$5,000. Morey and Sanday, gold. Shaft and tunnel, 200 tons; free; water; 5 stamps.
** **	Mount Pleasant Mining Co., New York City, 18 Wall St. James D. Hague, prest. Mount Pleasant, gold and silver. Shaft; free; steam; 10 stamps.
Groveland, Tuohuune Ry,Oak Dale (1992) (45 m.).	Cosmopolite Mining Co. Cap. \$5,000. Cosmopolite, gold. Tunnel; free; hand, 5 stamps. H. M. Stanley, supt.
	A. B. Crulckshank, Cap. \$45,000. Mary Allen and La Mascotte, gold and quartz. Tunnels, 5,400 tons; free; steam; 10 stamps.
**	James Brothers. Cap. \$2,000. Two Brothers, gold. shafts and tunnels, 50 tons; free; hand; 5 stamps. J. P. James, supt.
** ** ***	Mount Zion Mining Co. Cap. \$2,800. Mount Zion, gold. Shaft; Ircc. steam,
" "	Rhode Island Mining Co. T. C. Reid, prest.; Winslow Hubbard, seey. Bhode Island, gold. Shaft and tunnel; free and refractory; hand.
	Winslow Hubbard. Ellen Winton and Eagle Bluff, gold. Shafts and tunnels; free and refractory; hand,
Happy Camp. Siskiyou Ry,Montague 692(60 m.).	A. Clausen. Bald Hornet, gold. Placer; water,
*	Del Norte Mining Co., San Francisco, Cal., 728 Montgomery st. Henry Pierce, prest.; Win, H. Mead, seey, and treas.; S. S. Richardson, mgr. Cap. stk., \$500,000. Del Norte, gold. Placer; free; hydraulic.
4	Dillon Hill Mining Co., Cap. \$8,000. Dillon Hill, gold. Placer; hydraulic. M. Mann, supt.
**	C. Gordon, Cap. \$7,000. Pennsylvania, gold, Placer; hydrautic.
Hart Shasta	David Huey, Prospect Hill, gold, Placer; hydraulic, R. G. Hart 8r., Redding, Cal. Cap., \$50,000. Texas Consolidated, gold and silver, Tunnels, 10,000 tons.
Ry.Gold Mine Spur 692, Hayilah	free and refractory; steam; 20 stamps.  John Hayes. Cap. \$4,000. Ophir and Canty, gold. Tunnel and shafts, 300 tons; free; steam; 5 stamps.
Ry, Caliente 692,	Brush Hill Co. Frank Vangleste, mgr. Cap. \$4,000. Brush Hill, gold. Shaft, 500 tons; free, water 40
Ry, Amedee 527 (90 m.).	stamps.
**	Harbert & Lewis, Adin, Cal. W. F. Harbert, prest, and mgr.; James C. Lewis, secy, and treas. Gold and silver. Shaft, 350 tons; free; horse and water; 5 stamps. W. F. Harbert, supt.
**	Hayden Hill Consolldated Mining Co., Bieber, Cal. C.S. McCoy, prest.; N. Bieber, seey, and treas.; D. McLane, mgr. Cap. 8tk, 81,000,000. Big Valley and Modoc Chief, gold and silver. Tunnel: hand and water; 25 stamps. D. McLane, supt.
	C. A. McBride, Cap. \$500. R. Pay, gold. Placer, 100 tons; free; water; 5 stamps.
Henley Siskiyon Ry, Hornbrook 692.	H. C. Babcock, Gold, gravel. Tunnel, placer.
**	Blue Gravel Mining Co. A. McFarland, prest,; I. O. Jillson, secy, and treas.; C. B. Jillson, mgr. Cap. stk, 850,000. Blue Gravel, gold. Placer. C. B. Jillson, supt.
" "	Brass Wire Mining Co. Cap. stk. \$20,000. Trass Wire, gold. Placer; hydraulae. A. Harvey, supt.

Location of Mine, Railways, Water Routes and Shipping Point.	Name of Company or Individual, Location of Principal Office, Names of Officeer, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Soferintendent.
TOWN AND COUNTY.	OF TOURS CHEM, STAMP MILLS, LIC., AND MAKE OF MINE NOPERINTENDENT.
Henley Siskiyon	Wm. Loe & Co., Yreka, Cal. Gold. Placer.
(Continued.)	Niles Mining Co. A. W. Niles, prest.; L. Wright, secy.; Geo. Lee, treas.; E. A. Niles, mgr. Cap. stk, \$500 Rocky Gulch Bonanza, gold. Placer.
" "	Roberts & Thomas, Bumble Bee, gold, Shaft and tunnel, 22 tons; free, W. B. Thomas, supt.
** **	Thomas & Roberts. Fairy Queen, gold. Tunnel, 60 tons; free, W. B. Thomas, supt.
Hildreth Fresno Ry, Fresno City 692.	P. Bazinet. Eliza Jane, gold. Slope and tunnels, 12 tons; free; horse, arrastre.
** ** ** ** ** ** ** ** ** ** ** *	Joseph Markle. Gold. Slope; free; horse, arrastre.
	Mrs. R. C. Williams. Cap. stk. \$5,000. Last Chance, Hughs, Turkey's Nest, gold. Tunnel, placer, 40 tons; free; horse, arrastre.
Ry. 692.	J. C. Brown. Indian Girl, gold. Open pit, 50 tons; free; water.
Hunt's Hill Nevada	J. J. Fowler. Edison, gold. Free; water; arrastre.
Hunt's Hill Nevada (P. O. You Bet) Ry. Nevada City 499.	A. G. Turner. Cap. \$20,000. Eastern and Main, gold. Placer and drift; hydraulic.
Ry, Safton 692 (14 m.).	Cotsolidated Dos Palms Mining Co., Kansas City, Mo., 440–445 Heist Bidg. Peter W. Kline, prest.; Rober A. Heim, seey.; Nelson F. Acers, treas.; C. E. Bloomer, mgr. Cap. stk. \$2,000,000. Dos Palms, gold Tunnels; free.
Inskip Butte Ry, Oroville 692.	Christnot & Co. Cap. \$6,000. Owel, gold. Tunnel and shaft, 2 tons; free; hand.
M	Davis & Cory. West Branch, gold. Placer; water.
	Manuel Enos. Cap. \$1,500. Ogden Revere, gold. Placer; water.
	Golden Summit Blue Gravel Mining Co., Golden Summit, Cal. Golden Summit, gold. Deep placer, tun nel; hand.
**	Thomas Henderson, Cap. \$2,000. Golden Thread, gold. Tunnel, 25 tons; free; water.
to "A muslon	Faustino Machado, Cap. \$500. Machado, gold. Placer.
Jackson, Amador Ry, Ione 692 (1240.).	Albany Gold Mining Co., San Francisco, Cal., 330 Pine st., Room 5. John Henderson, prest.; F. E. Lutz seey; H. R. Lomisberry, treas, and mgr. Cap. stk. \$1,000,000. Albany, gold. Deep shafts and tunnels (developing); free; steam.
59 09	W. N. Bar Due, San Francisco, Cal., cor. Mission and Twenty-first sts. Gold. Tunnels, shafts and drifts: free and refractory; water; 20 stamps and concentrator.
"	Wm, Doyle, Doyle, gold. Shaft and tunnel, 200 tons; free; water.
. , ,	Kennedy Mining & Milling Co., San Francisco, Cal., 404 Montgomery st. John Barton, prest; L. F. Reich- ling, seey, and treas; J. F. Parks, mgr. Kennedy, gold. Shaft and slope, 37,000 tons; free; water and steam; 40 stamps. J. F. Parks, supt.
	Zeila Mining Co., San Francisco, Cal., 137 Montgomery st. Frederick O. Heydenfeldt, prest.; Thomas O. Heydenfeldt, seey. Crocker Woodworth National Bank, treas.; Zeila, gold. Shafts, 48,000 tons; free steam and water; 49 stamps and goncentrator. W. F. Deterf, supt.
Jacksonville .Tuoluume Ry.Oakdate 692(32 m.).	C. A. J. Waterman. Golden Crystal, gold. Shaft, tunnel and slope; free; hand.
Jamestown Tuolumue Ry. Milton 692.	App & Co. Gold. Shaft; free; water and steam; 25 stamps.
	Dutch Mining Co. Dutch, gold. Shafts, 400 tons; free; horse; 5 stamps. R. Fitzgerald, supt.
	G. A. Leland, Cap. \$20,000, Nigger Hill, gold, Hand, Martha Washington Placer Mining Co. Oddand Cal. 1919 Walston of Mrs. S. Cortrada Smyth proct.
	Martha Washington Placer Mining Co., Oakland Cal., 1212 Webster st. Mrs. S. Gertrude Smyth, prest, Mrs. P. T. Burrell, seey, and treas. Cap. stk. \$500,000. Peoria, gold. Placer; free; water and elec- tricity.
"	Rawhide Mining Co., San Francisco, Cal. W. A. Nevills, prest, and mgr.; A. Judson, seey.; John Ballard, treas. Rawhide, gold. Shaft; refractory; steam and water; 40 stamps. W. A. Nevills, supt.
	Tuolumne Gold Mining Co., San Francisco, Cal. O. H. Bogart, prest.; I. Vollmer, seey.; I. Kallmes, treas, and mgr. Cap. sk. \$2,200,000. Table Mountain, gold. Shafts, drifts and tunnels: steam (developing). I. Kallmes, supt.
Johnsville Phimas Ry. Chaf 490.	Franklin Consolidated Gold Mining Co. D. McFarlane, prest, and secy.; W. Sperry, treas.; T. L. Jones, mgr. Cap. stk. \$13,000. Franklin, gold. Tunnel. T. L. Jones, supt.
	Jamison Mining Co. John Nevill, prest.; Sam W. Cheyney, seey, and mgr.; Bank of California, treas. Cap. stk. \$3,900,000. Jamison gold. Shaft and tunnel: free; water. Sam W. Cheyney, supt.
Julian San Diego Ry. Lakeside 649.	Eagle Mining Co. Eagle, gold. Shaft and tunnel, 500 tons; free; mill. A. N. Frary, supt.
	Ella Mining Co. Ella, gold. Tunnel; free; horse. S. N. Wilcox, supt.
**	Owens Consolidated Mining Co., San Diego, Cal. H. A. Williams, prest, and treas.; John M. Harney, seey. Cap. stk. \$900,000. Owens, gold. Shaft; free; steam; 10 stamps.
Keeler Inyo Ry, 108,	James Jenkins. Harrison, silver. Tunnel and shaft, 10 tons; refractory.
	Robert Lockett. Landmark, gold, silver and lead. Shaft and tunnel, 30 tons; refractory; hand,
Kennett Shasta Ry, 692.	Anglo California Gold Mining & Milling Co., Chicago, Ill., 232 Clark 8t. J. F. Lee, prest.; W. J. McMullen, seev.; E. H. Whited, treas.; C. M. Dobson, mgr. Cap. 8tk. \$1,000,000. Anglo-Californian, gold. Shafts and tunnels; free and refractory; water; 29 stamps. Charles Ferguson, stpl.

GOLD AND SILVER-(CONTINUED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUFFRINTENDENT.	
Kernville	Bob Lee Mining Co. Robert Robinson, prest.; J. W. Robinson, seey.; Wm. Wicker, treas.; James King, mgr. Cap. stk. \$100,050. Bob Lee, gold. Shaft, 1,000 tons; free; water; 10 stamps. Luther Burton, supt.	
(P. O. Kernville) Ry, Callente 692,	J. W. Summer. Cap. \$5,000. Mammoth and Tom Lane, gold. Tunnels and shafts, 200 tons; free; water; 5 stamps.	
LetcherFresno Ry, Fresno 692.	Frank Gross, Cap, \$5,000. Defiance, gold. Tunnel, 100 tons; free; horse, arrastre.	
Lewiston Trinity Ry. Redding 692.	S. M. Jensen. Midnight Star, gold. Tunnel and shaft, free (developing).  Edward Lloyd. Cap, \$10,000. Confident, gold. Slopes and tunnels, 300 tons; free; water; 5 stamps.  Lewiston Hill Placer Mine, gold. Placer; hydraulic. Jas. W. Phillips, supt.	
Long Canon Placer (P. O. Michigan Bluft) Ry, Auburn 632,	Shedd & Scott. Ferry Gulch, gold. Placer, W. B. Marshatt. B. F., gold. Deep placer, tunnel; hand.	
Lordsburg Los Angeles Ry, 26.	Kingsbaker, Edelman & Connoley, Los Angeles, Cal., 204 N. Los Angeles st. 8an Dimas, porphyry. Plt. hand and horse. John M. Connoley, supt. Joseph Glines. Willard, gold. Placer: hydraulie.	
	Magalla Consolidated Mining Co., Oroville, Cal. D. P. North, seey. Magalia, gold. Drift; free, water. S. P. Moody, supt.	
Mariposa. Mariposa Ry, Merced 692.	O. W. Ward. Whitlock, gold. Shaft and tunnel; free; steam.	
Marysville Nevada Ry. Nevada City 400.	C. O. Sawtelle, E. W. Sawtelle & F. H. Greeley, Cap. \$4,000, Black Bull, gold, Placer, tunnel; free; horse,	
Michigan Bar, Sacramento Ry, Carbondale 692.	Amador & Sacramento Canal Co. Mrs. Jennie B. Ritter, prest, and treas, Henry S. Byam, seey, and mgr. Cap. sik, \$200,000. Hill Top, gold. Placer, hydraulic. Henry S. Byam, supt.	
Michigan Bluff Placer Ry, Colfax 692.	James Gordon, Cap. 80,000. Gordon, gold. Placer; hydraulle. Dam Mining Co., Son Francisco, Cal., cor. Broadway and Battery sts. Dam, gold. Free; gravel; horse and hand. Adolph Weske, supt.	
Middle Bar Amador P. O. and Ry. Jackson 692 (12 miles).	Hurd & Blekford, Fox Flat, gold, Placer; hydraulic, 8, H. Howland, Casco, gold, Slope, 10,000 tons; free; water; 10 stamps,	
Middle Creek Shasta (P. O. name Waugh) Ry, 692.	Calumet Gold Mining Co. W. H. Garliek, prest, and treas.; A. B. Paul jr., seey.; Almarin B. Paul, mgr. Cap. stk. \$1,000,000. Calumet and Poor Man, gold. Tunnel, shaft and drift; refraetory; water; 24 stamps. Almarin B. Paul, supt.	
**	Crossbow Gold Mining Co., San Francisco, Cal., Room 62 Nevada Block. Julius Koebig, prest.; Henry D. Walker, seev., Bank of California, freax., Armold Becker, mgr. Cap. 8tk. \$50,000. Crossbow and Skyblue, gold. Shaft and tunnel; free. M. Maryanski, supt.	
MokelumneHill,Calayeras Ry, Valley Springs 692.	Horsevill & Bishop, San Francisco, Cal. Calayeras, blue lead; Whatcheer, gold. Placer; free; water and steam; 5 stamps. F. J. Horsevill, supt.	
49 49	McSorley & Co. Green Mountain, gold. Tunnel, 20,000 tons; free, water; 8 stamps. T. E. McSorley, supt.	
	8. S. Moser. Excelsior Consolidated, gold. Placer; free, water. Quaker City Gold Mining Co., San Franseisco, Cal., 448 Market st. E. B. Rambo, prest. Quaker City, gold. Shaft; free; steam and water; mill. H. J. Mesorley, supt.	
	gold. Shaft, tree; steam and water; mill. H. J. Mesorley, supt. Sandy Bar Mining Co., San Franseisco, Cal., Tivoli Opera House, Wm. Kreeling, prest, Cap. stk. 85,000,000. Sandy Bar, gold. Free; water; to stamps. E. H. Davison, supt.	
	\$1,000,000. Sandy Bar, gold. Free; water; 10 stamps. E. H. Davison, supt.  Thomas Sullivan. Gold. Placer, tunnel; free; water.	
Mono Lake Mono Ry, Hawthorne, Nev. 108.	Hammond Bros. Charles A. Dyer, mgr. Cap. \$6,000. Charleston Consolidated, gold. Tunnel: free; water; 5 stamps. J. P. Hammond, supt.	
Mtn. Ranch Calaveras Ry. Valley Springs 692.		
Nevada City, Nevada Ry, 490.		
B	Champion Mining Co., San Francisco, Cal., 320 Sansome St., Room 10. F. Zeitler, prest.; Theo. Wetzel, seey.; Jos. Schuster, treas. Cap. stk. \$200,000. Champion, gold and silver. Shaft, 10,000 Ions; free; water: 15 stamps. L. P. Goldstone, supt.	
46 46	Craig Bros., San Francisco, Cal., 316 Montgomery st. Cap. \$150,000. Knickerbocker Consolidated, gold. Tunnel, placer, 30,000 tons; free; hydraulic Walter R. Craig, supt.	
. "	Federal Loan Gold Mining Co. John Vincent, prest, and mgr.; Chas. J. Brand jr., seey.; A. Wutke, treas. Cap. 8tk, \$5,093,000. Federal Loan, gold and silver. Shaft and slope, 7,000 tons; free and refractory water; 10 stamps. John Vincent, supt.	
	Fountain Head Gravel Mining' Co., Q. J. Rolfe, prest.; E. Miller, secy.; Citizens' Bank, treas. Cap. 8tk. 81,000,000. Fountain Head, gold. Shaft; water, hydraulic.	
n n	Gold Hill Mining Co., New York Cir., 50 Broadway, M. J. Shoecraft, prest.; C. Lattlefield, seey, and treas.; B. N. Shoecraft, mgr. Cap. sfk, \$80,000, Nevada City, gold. Shafts, 12,000 tons, free; water; 20 stamps, B. N. Shoecraft, supt.	
/10.		

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,00 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Nevada City Nevada (Continued.)	Manzanita Consolidated Gravel Mining Co., George C. Shaw, prest.; Robt, J. Simmons, secy.; E. M. Preston, treas.; Robt, Simmons, nigr. Manzanita Consolidated, gold. Placer; water (developing). Robt, Simmons, supr.
·· ·· -	Mayflower Mining Co. W. H. Martin, prest, and mgr.; John Waters, seey.; Robt, Martin, treas. Cap. stk. \$10,000. Mayflower, gold. Tunnel and shaft, 2,000 tons; free; water; 4 stamps. W. H. Martin, supt.
9 ± 0	Mountaineer Mill & Mining Co., San Jose, Cal. J. A. Hornberger, prest.; A. E. Moody, seey, and treas.; W. A. Dennis, ngr. Cap. \$10,000,000. Mountaineer, gold. Slope and tunnel, 10,000 tons: free; water; 20 stamps. W. A. Dennis, supt.
**	Odin Gold & Silver Mining Co. Chas. Kilingensdor, prest.; R. Casper, seey.; J. J. Ott, treas.; Carl Hesse, mgr. Cap. stk. \$1,500,000. Nebraska and Wait for the Wagon, gold. Placer; hydraulie. Geo. Nihell, supt.
49	Providence Mining Co., San Francisco, Cal., X.W. cor, Fourth and Bryant sts. Peter Tautphaus, prest.; W.H. Widman, seey.; Bank of California, treas; Carl Davis, mgr. (ap. stk., \$1,000,000. Providence, gold. Shafts and tunnel, 26,000 lons; free; water; 49 stamps. Carl Davis, supt.
	Stiles Gold Mine, San Francisco, Cal., 310 Pine st. James Morgan, prest.; John A. Robinson, seey.; Bank of California, Ireas.; Wm. B. Mesherry, mgr. Cap. stk. 81,000,000. Stiles, gold. Shaft; free; steam. Wm. B. Mesherry, supt.
** **	West Harmony Gravel Mining Co., 61 Broad st. R. C. Walrath, prest, and mgr.; A. Isoard, seey.; W. W. Stow, treas. West Harmony, gold. Shaft, 60,000 tons; free; water. R. C. Walrath, supt.
Newcastle Placer Ry, 692.	W. J. Lawrence, Cap. \$45,000. Lawrence and Jenny Lind, gold. Shaft, 7,000 tons; free; water; mills.
N 11	E. L. G. Steele & Co., San Francisco, Cal., 208 California st. Live Oak, gold. Slope; free; horse. Robt. Jones, supt.
Newhall Los Angeles Ry, Sanger, 692.	Mary Frederick Mine, C. D. Rust, mgr. Gold. Tunnel and slope; free; hand, steam and water.
NimshewButte Ry, Chico 692 (22 m.).	Eagle Gold Mining Co. Saul Rugh, prest.; T. C. Whitely, secy.; Bank of California, treas.; G. C. Higgins, mgr. Cap. stk. 860,000. Eagle, gold. Tunnel; placer; hydraulic. G. C. Higgins, supt.
North Bloomfield Nevada 14y, Nevada City 490 (14 miles).	Derbee Blue Gravel Mining Co., San. Francisco, Cal., 320 Sansome st., Room 10. A. G. Chauchl, prest,; Theo, Wetzel st., seey.; London, Paris and American Bank, treas; Theo, Wetzel jr., mgr. Cop., stk. \$100,000. Derbee, gold. Placer, shaft, 50,000 fons; steam and hydraulic. Theo, Wetzel jr., supt.
** 11	North Bloomfield Gold Mining Co., San Francisco, Cal., 320 Sansome st. 11. Pichoir, prest.; Rank of California, treas. Cap. stk. \$3,000,000. North Bloomfield, gold. Hydraulie. J. G. Mather, supt.
North ColumbiaNevada Ry, Colfax 692.	Delhi Mining Co., San Francisco, Cal., 320 Sansome st., Room 26. R. McMurray, prest.; C. F. Hunt, secy, London, Paris and American Bank, treas. C. H. Mallen, mgr. Cap. stk, \$0,000,000. Delhi, gold and silver. Tunnel, 1,000 tons; free; water; 18 Sannys. C. H. Mallen, supt.
	Enterprise Gold Mining Co., North Columbia, Cal. Major J. S. McBride, prest,; C. S. Paine, secy.; R. McMurray, Treas.; C. H. Mallen, mgr. Cap. stk. \$10,000,000. Enterprise, gold and silver. Shaft and tunnel; free; hand. C. H. Mallen, supt.
NoveltySiskiyou Ry, Gazelle 692 (75 m.).	Gold Run Mining Co. Cap. \$20,000. Gold Run, gold and silver. Tunnel, 2,000 tons; free; water; 4 stamps. A. Dannenbrink, supt.
n	Know Nothing Quartz Mining Co. Know Nothing, gold. Tunnel, 1,000 tons; free; water; 4 stamps. Louis Bevans, supt.
Oak BarSiskiyou Ry, Vreka 692,	Jensen & Co., gold. Placer; water. C. Jensen, supt.
(And the state of	C. H. Peck & Co. Peck's Bad Boy, gold. Free; water, arrastre. C. H. Peck, supt.
OgilbySan Diego Ry, 692,	P. B. Mathiason, St. (Louis, Mo., 5310 N. Second st. Capital \$20,000. Mother Loade, gold. Shaft and tunnels; free.
	Pasadena Gold Mining Co., Pasadena, Cal. W. T. Grimes, prest.; P. B. Mathiason, seey.; Wm. Borthwick, mgr. Cap. stk. \$200,000. Hosa Lowman, gold. Tunnel; free; hand; 20 stamps. Wm. Borthwick, supt.
** **	Paymaster Mining Co., Boston, Mass. Chas, P. Hemenway, prest.; John Dodd, seey.; T. Quincy Browne, treas.; H. W. Blaisdell, nigr. Cargo, Muchacho, gold. Shaft, 18,000 tons; free; steam; 20 stamps, Hiram W. Blaisdell, supt.
Omo RanchEl Dorado Ry. Latrobe 692 (30 niles).	Crystal, Gold Mining Co., San Francisco, Cal., 344. Eddy st. George H. Hawes, prest.; S. A. Kelly, seey, and treas.; L. L. Alexander, mgr. Cap. stk., \$250,000. Crystal, Creole, Mountain Quall and Creole North, gold. Shaft and tunnel; free and refractory, water; s stamps. L. L. Alexander, supt.
Ono Shasta Ry, Hudson 692,	Joseph E, Bell, Shasta, Cal. Summit, gold. Tunnels, 250 tons; refractory. J. Scranton, supt.
	Davis & King, Sunny Hill, Cal. J. P. W. Davis, mgr. King, gold. Tunnel, 300 tons; refractory; water, arrastre; mill. J. P. W. Davis, supt.
** **	N. Gardiner. Red Hill, gold. Placer; hydraulic.
****	Sharp Mining Co., San Francisco, Cal., 22 Townsend st. E. R. Hall, prest.; Louis Sharp, seey, and trens.; L. V. Loomis, mgr. Cap. stk. \$20,000. Grey Eagle, gold. Tunnels, 1,500 tons; free and refractory; water; 5 stamps, mill. L. V. Loomis, supt.
Ophir Placer Ry, New Castle 692.	Win, Geach, Auburn, Cal. Cap. \$20,000. Central and Humbug, gold. Shaft; free; horse,
11	John Holbrook & Son, New Castle, Cal. Cap. \$50,000. June Bug and Lena Rivers, gold. Shaft, 1,000 tons; refractory; water; 5 stamps. N. T. Holbrook, supt.
**	Hubbard & Reed, Auburn, Cal. Gold Blossom, gold. Shaft, 4,000 tons; refractory; water; 10 stamps. E. L. Hubbard, supt.
	N. Maring & Son. Bullion, gold. Shaft; free and refractory; steam.
	W. R. Monahan. Monumental, gold and silver. Shaft; free; horse (developing).

GOLD AND SILVER—(COMMED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Obe, Kind of Mine, Annual Outfut in Tons of 2,00 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.	
Ophir,	Ophir Gold & Silver Mining Co. W. Steel, prest.; J. W. Mackey, seey.; C. U. Handy, treas.; L. Ferguson mgr, and supt. Cap. stk. \$300,000. Ophir, gold and silver. Shaft, 1,200 tons; free; water; 10 stamps.	
" " "	Chas, A. Reed. St. Lawrence, gold. Tunnel and shafts; free and refractory; hand (mill under construc- tion).	
	Schnabal & Co., New Castle, Cal. Boulder, gold and silver. Shaft and drift; free and refractory; water.	
11	Otto T. Walter. Morning Star, gold. Shaft; free and refractory; water and hand,	
"	James S. Winn. Brush Fence, gold. Tunnel, 1,500 tons; free.	
Orleans Bar Humboldt Ry. Arcata 692.	Allen & Lord Cap. \$4,000. Red Cap and French Bar, gold. Placer; hydraulic. A. H. Allen, supt.	
	A. Markusen, Cap. \$4,000. Croton Bar, gold. Placer; hydraulic, Orleans Bar Mining Co., London, Eng., 110 Cannon St., E. C., G., A. Batchelor, prest.; P. L. Young, seey., treas, and mgr. Whiler, gold. Placer, hydraulic; 1 glant. P. L. Young, supt.	
Oro Grande, S. Bernardino (P. O. Halleck) Ry, 26,	min.	
* *	Pacific Gold & Silver Extraction Co., Los Angeles, Cal. M. M. Morrison, prest.; E. L. Doheney, seey.; J. B. Rentcheler, treas, and mgr. Cap. 8th, \$10,000. O. G. and O. K., gold and silver. Shaft, 4,500 tons; free and refractory; steam; 10 stamps. J. B. Rentcheler, supt.	
Patterson Mng. Dist. Mono (P. O. Sweetwater, Nev. Ry. Hawthorne, Nev., 108.	Great Western Consolidated Mining Co., San Francisco, Cal. Wm. Irwin, prest.; Martin Jones, seey., H. C. Callahan, treas. Cap. 8tk, \$10,000,000. Great Western, sliver. Tunnel, free (developing).	
	Rattler Mining Co., Sweetwater, Nev. Cap. stk. \$10,000. Rattler, gold and silver. Drifts (developing), A. S. Kilpatrick, supt.	
	Durgin Mining Co., San Francisco, Cal., 308 California st. D. A. Hiller, prest.: Walter N. Kempton, seey.; Grangers' Bank, treas.; L. J., Lewis, ngr., Cap. 848, \$1,000,000, Durgin, gold. Tunnel; placer, 240,000 tons; free; water, L. J., Lewis, supt.	
Perris San Diego Ry. 26. (6 miles).	Adyor Mining Co., East St. Louis, Ill. F. J. Krouse, prest, and mgr.; Elliott B. Page, seey, and treas, Cap. stk. \$100,000. Adyor and Kosnoc, gold. Tunnel; free.	
**	Mortimer Curren, Los Angeles, Cal. Colorado, gold. Stope (developing); free. Frank A. Garbutt, supt.	
**	Good Hope Consolidated Gold Mining Co., J. M. Sigafus, prest., J. Everett Bird, seey, and mgr.; E. M. Bird, treas, Cap. 8tk, \$100,000. Good Hope, San Jacinto and Annex, gold. Shaft and slope, 15,000 tous; free; steam; mills. J. B. Doran, supt.	
Pike City Sierra Ry, Nevada City 496.	King Solomon Mining Co., Grass Valley, Cal., Citizens' Bank, Main St. Elam Biggs, prest.; J. M. Thomas, seey.; Citizens' Bank, treas.; W. H. Weldon, Ingr. Cap. 8th, 82,000,000. King Solomon, gold. Tunnels', free; water; to stamps. W. H. Weldon, supt.	
Placerville El Dorado Ry, 692,	Barnes Mining Co. H. L. Robinson, nigr. Barnes, gold. Shaft, free and refractory; steam. H. L. Robinson, supt.	
**	Blair Drift Mine, San Francisco, Cal. H. O. Bacon, prest., seey, and treas.; F. P. Bacon, mgr. Blair, gold. Tunnel (developing).	
**	Bobby Burns Mining Co. Henry G. Miller, treas. Bobby Burns, gold. Shaft: free; water; 10 stamps. Henry G. Miller, supt.	
	El Dorado Big Tunnel & Mining Co. H. S. Morey, prest.; George W. Kimble, secy.; Thos. Alderson, treas.; L. McNeltl, mgr. and supt. Cap. stk. \$109,000. El Dorado Big Tunnel, gold. Tunnel; water.	
	El Dorado Water & Deep Gravel Mining Co. Arthur Young, prest.; William R. Colomb, seey, and treas. Thirty nulnes, gold. Hydraulic.	
**	Middleereek Mill Mining Co., Sacramento, Cal., 2022 I st. C. S. Robb, prest.; B. F. Parsons, seey, and trens.; S. A. Laue, mgr. Cap. stk. \$55,000. Middleereek, gold. Tunnel; hand. S. A. Laue, supt.	
	Richard & Gregory, Samuel Gregory, seey, and treas; George Gregory, mgr. Oak Ranch, gold. Shaft and slope, 2720 tons; steam; 10 stamps. George Gregory, supt. W. P. Stanley. Toll House, gold. Shaft and drifts; water; 10 stamps, mill. W. C. Green, supt.	
	Toll House Mining Co. Hook and Ladder, gold. Shaft and drifts; free; water; 10 stamps. W. C. Green, supt.	
Plymouth	Bay State Minling & Development Co. W. T. Jones, prest.; A. J. Coster, secy., J. Woolford, freas. Cap. ski, \$200,000. Bay State, gold. Shaft; steam, W. T. Jones, supt.	
" . "	Osceola Consolidated Mining Co., San Francisco, Cal., 307 Montgomery st. Jacob Wray, prest.; Holland Smith, secy.; Jos. Wertheimer, treas; Mehael Wertheimer, ingr. Cap., stk, \$10,000,000. Osceola, gold and silver. Shaft; free and refractory; water. J. W. Brown, supt.	
Quincy	W. S. Dean, Genesee, gold, Placer; hydraulic,	
	Golden Gate Mining Co., Golden Gate, gold. Tunnel, shaft and open pit; free; steam; 10 stamps. C. E. McLaughlin, supt.	
	Goodwin & Kelley, Cap. \$50,000. Hungarian, gold. Placer; hydraulic,	
	A. E. Leavitt. New Town Flat, gold. Shaft and tunnel; hand.	
Dallmord Elet Calconne	Frank Vere, Cap. \$10,000, Vere's, gold, Placer; hydraulic,	
Railroad FlatCalaveras Ry, Spring Valley 692.	11. S. Ellsworth. Keystone, gold. Shaft, 300 tons; free; hand; 5 stamps. Henry Thum. Cap. \$3,000. Varuna, gold. Shafts, 100 tons; hand.	
Raymond Fresno Ry.Herbert Switch 692.	Cook Bros. Cap. stk. \$100,000. Gold. Open pit, 1,500 tons; hand.	

		GOLIF AND SHAVEAU
LOCATION RAILWAYS, W.	ATER ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore. Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine superintendent.
TOWN AN	D COUNTY.	
Redding Ry, 692,	Shasta	Isaac Atwood. Lloyd, gold. Shaft and tunnel; free; water.
**		Benjamin N. Bugbey, Sacramento, Cal., Court-House, Cap. \$56,000. Little Nellie, gold. Tunnel, 2,50 tons; free and refractory; water; mill. J. M. Gleaves, supt.
*	**	Don Carlos Gold Mining Co., Santa Cruz, Cal., 179 Pacific av. I. L. Thurber, prest.; L. Markham, seey and agr.; City Bank of Santa Cruz, treas. Cap. stk, \$100,000. Don Carlos. Tunnel; free and refractory; water and electricity; mill. Chas, Thistlethwaite, supt.
**	**	Eureka Tellurium Gold Mining Co. Peter Scherer, prest.; George C. Jones, seey.; Bank of Shasta Co., treas Cap. stk. \$1,250,000. Eureka, gold. Shaft and tunnel; free and refractory; steam. Peter Scherer, supt
**	**	Christensen & Foster, T. W. Foster, mgr. Cap. \$10,000. Black Jack, gold. Tunnel, 15,000 tons; free water; mill. C. P. Christensen, supt.
**	. "	W. C. Hart & Co. T. H. Hart, mgr. Bismark Consolidated, gold and silver. Tunnels; free; water; mill W. C. Hart, supt.
18	**	Reed Mines Consolidated Co., San Francisco, Cal., Nevada Block. J. L. Howard, prest.; A. L. Cheminan seey.; James Duncan, treas.; Robert Stevenson, ngr. Cap. stk. 81,000,000, Reed, gold. Tunnels and shafts; free and refractory; steam; 5 stamps. Robert Stevenson, supr.
Relief Hill (P.O.Nortl Ry. Nev	Nevada a Bloomfield) ada City 490,	Waukeshau Consolidated Co. Waukeshau, gold. Tunnel, placer; free; horse; hydraulic. John R. Jones supt.
Riverside.Sar Ry. 692.	n Bernardino	Gavilan Mining & Milling Co. A. S. White, prest.; C. W. Sylvester, seey, and mgr.; J. S. Castleman, treas Cap, stk. \$1,000,000. Gavilan, gold. Shaft and tunnels; free; mills. B. R. Williams, supt.
Runnel Creek (P. O. Ork eata 692	eans) Ry. Ar-	Runnel Creek Mining Co., Areata, Cal. Win, Lord, prest., treas, and mgr.; Fred Gent, secy. Cap, stk \$30,000. Runnel Creek, gold. Ulacer; water. John L. Fehely, supt.
San Andreas Ry, Valle	Calaveras y Springs 692	Agostini & Ortion, G. Agostini, prest.; A. Ortion, sery.; E. Ortion, mgr. Cap. \$15,000. Last Chance, gold Shaft and tunnel; free; steam and water. G. Agostini, supt.
**		John Rathgel, Cap. \$100,000. Cordova, shaft. Free; steam; 20 stamps. J. Holland, supt.
**	4.4	Ben, K. Thorn, Illinois, gold, Shaft; free; horse.
"		Thorpe Mining Co., Fourth Crossing, Cal. Moses Thorpe, mgr. and supt. Thorpe, gold. Shaft; free an refractory; water: 10 stamps (developing).
"	. **	Union Shaft Gold Placer Mining Co. Wm. M. Murphy, prest.; fra Hill Reed, seey, and mgr.; James Ti- cornia, treas. Cap. stk. \$480,000. Union Shaft, gold. Shaft; free; water and steam; 8 stamps. Ir Hill Reed, supt.
San Bernardi Sar (Ry. 692,	a Bernardino	Bear Valley Mining Co., 648 W. Third st. Lewis Deck, prest; John R. Lusby, seey.; Ernest Waghorr trens.; Chas. L. Metzgar, mgr. Cap. stk, \$1,000,000. Cordova, Moonstone, Iron Mask, Pittsburg, Eastend, West End, gold, sliver and lead. Shafts and tunnels; refractory. Chas. L. Metzgar, supt.
Santa Cruz Ry. 552, 6	Santa Cruz 2.	A. H. Fitch. Stribling, gold and silver. Tunnel; free and refractory; steam; 5 stamps.
Sawyer's Bar Ry, Gazel	Siskiyou le 692 (75 m.).	A. Ahlgran. Red Hill, gold, Placer; hydraulic.
	**	C. Barry & Co. Whistle Bear, gold. Open pit; placer; water.
	"	G. W. Bigelow & Sons. Cap. 87,000. Channel, gold. Placer; water. S. L. Finley, gold. Placer; water.
**		Gold Bull Mining Co., Canton, Ohio. J. P. Hole, prest,; L. M. Jones, secy.; L. L. Miller, treas. Cap. st \$1,000,000. Mountain Laurel and Klamath, gold. Tunnel, 4,200 tons; free; steam and water; 20 stamps Albert Ball, supt.
		Frank Manha & Co. Cap. \$25,000. Belcher, gold. Placer; hydraulic. Frank Manha, supt.
**	11	P. Napoles & Co. Cap. stk. \$60,000. Progress, gold. Placer; water. Pedro Napoles, supt.
**	44	Fred Olson, Cap. \$2,000. Olson, gold. Placer; hydraulic.
	**	Edward Roberts, Roberts, gold. Tunnel and shaft, 1,850 tons; free; water, arrastre.   Uncle Sam Quartz Mining Co. Uncle Sam, gold. Shaft and tunnel; free; water; 8 stamps. Edmun
26	**	Sheffield, supt.  John C. Windeler. Panther Hill, gold. Placer; hydraulic.
Scott River	Siskiyon	
Ry, Yrek Seiad Valley. Ry, Yrek	siskiyon	W. T. Grider. Cap. 88,000. Mississippi, gold. Placer; water.
		Lee Yat Co. Cap. stk. \$10,000. Wood Bros., gold. Placer; hydraulie, M. B. Phillips, supt.
4.6		John S, Lowden Sr., Handburg Bar, Cal., Lowden's Ranch. Cap. \$20,000, Jack Lowden, gold. Placer water and hydraulic. J. S. Lowden, supt.
**		J. P. Shinar & Bro. Kenyon Claim, gold. Placer; free; water.
Shasta Ry. 692.	Shasta	David Pesentia. Live Oak, gold. Shaft, tunnel, 150 tons; free; steam.
Shingle Sprin (P. O. G Ry, 692,		
	4.	taller Lack Mining Co. Onkland Cal. 1010 We. binetan et H. P. Cray most Sal Ragers seev H. H.

Sailor Jack Mining Co., Oakland, Cal., 1010 Washington st. D. P. Gray, prest.; Søl, Rogers, seey.; H. H. Worley, treas. Sailor Jack, gold. Tunnel; free; steam; mill. Harry, Prideaux, supt.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

WN AND COUNTY.

#### GOLD AND SILVER (CONTINUED)

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock,

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2010 POINDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Sierra City Sierra Ry, Nevada City 490.	A. C. Busch, Phoenix, gold, Tunnel, 45,000 tons; free; water; 10 stamps,
* .	Butte Saddle Gold Mining Co. Francis Joseph Seitz, prest.; Antone Seitz, seey.; F. J. Seitz, treas, and mgr. Cap. stk. §500,000. Butte Saddle, gold. Shaft and tunnel; free.
	Chips Mining Co., San Francisco, Cal., 79 Nevada Block, W. E. Dean, prest, and treas.; Chas. E. Elliot, seey, and nigr. Cap. stk. \$10,000,000. Chips, gold. Tunnel, 4,500 tons; free; water; 12 stamps. Samuel Locke, supt.
	Sierra Buttes Gold Mining Co., Ltd., London, Eng., 138 Leadenhall st., E. C. F. Tendron, prest.: John Saul, seey.; Win, Johns, mgr. Cap. stk. \$1,225,000. Sierra Buttes, gold. Tunnels, 7,200 tons; free; water; lo stamps. Stephen Thomas, supt.
	Young America Consolidated Mining Co. Thos. Brennan, prest.; J. H. Knuthson, seey. Cap. 8tk. 82,500,000, Young America, gold. Tunnel, 25,000 tons; free; water; 40 stamps. John H. Henderson, supt.
	Vuba Consolidated Gold Mining Co., John H. Henderson, prest.; J. H. Knuthson, seey.; Hagerty & Lehman, treas. Cap. stk. \$16,000. Yuba, gold. Tunnel: placer. Gabe Cortello, supt.
Snelling Merced Ry, Merced 692.	Mrs, Sophia Jacobs. Minnesofa and Spangley, gold. Free and refractory; to stamps. Pawle Daggarso, supt.
Sonora Tuolimne Ry, Oakdale or Milton 692.	Badger Mining Co. A. E. Ellis, prest.; J. M. Palmer, seey, and treas.; Geo. E. Stayton, mgr. Badger, gold. Shaft and funnels; free; water. Geo. E. Stayton, supt.
**	Consolidated Eureka Mining Co., San Francisco, Cal., 224 California st. Hayward & Hobert, prest, and mgr.; C. T. Bridge, seev, and trens. Consolidated Eureka, gold. Shatt, 14,500 tons; free; steam and water; 20 stamps. C. H. Thomas, supt.
**	New Albany Mining Co. New Albany, gold. Shaff, 3,000 tons; free; water, 40 stamps. W. Long, supt.
Soulsbyville Tuolumme Ry, Oakdale 692.	Leechman Prospecting Co., San Francisco, Cal., 508 California st., John S. Cox, prest., Charles Christic, seey.: John Leechman, mgr. Keltz, gold and silver. Shatt and tunnels, 4,000 tons; free, water; 10 stamps. William Sharwood, supp.
	W. Sharwood, Porto Fino, gold. Shaft: (ree., steam   developing).
**	Tholmine County Development Co. John Sievers, prest, C. Herrmann, seey, and treas. Cap. 8th, 800,000, Platt and Glson, gold and silver, 8haft, 7,200 tons; free; steam and water; 40 stamps, A. Trittenbach, single
S, Riverside, S, Bernardino Ry, Elsinore 26.	Peterson Bros., Terra Cotta, Cab. Cap. \$7,500. Occidental and Lucky Turn, gold and silver. Shaft, tunnel and slope; free and refractory. David Peterson, supt.
Spenceville Nevada Ry, Wheatland 692.	Bitner & Pietzsch. Cap, \$100,000. Champion Consolidated, gold, silver and copper. Tunnel and shaft, 100 tons; refractory; water and electricity. Capt. C. C. Bitner, supt.
**	Goodhope Mining Co., Grass Valley, Cal. W. Pascoe, prest.; R. Vincent, seey, and treas., A. Gale, mgr. Cap. stk, \$300,000. Good Hope, gold and silver. Shaft, free; water. R. Vincent, supt.
**	W. H. Jackson, Cap. \$25,000. Jackson No. 2, gold, silver and copper. Tunnel, refractory; hand,
**	Mammoth Mining Co. Cap. 850,000. Mammoth, gold, silver and copper. Tunnel, free and refractory, water. John F. Dempsey, supf.
Stella Shasta Ry, Middle Creck 692.	J. C. Thickstun, Los Angeles, Cal. Cap. \$2.500. Stella, gold. Tunnel, free; water.
"	West End Co. Cap. stk. \$10,000. West End. gold. Tunnel and shaft, free; water; 10 stamps, 1 quartz-mill. Wm. Andrew, supt.
16	Oliver P. Woodward jr. Mountain View, gold and silver. Tunnel and shaft, refractory.
Sulphur Creek Colusa Ry, Williams 692.	T. M. Cooper, Williams, Cal. Cap. 820,000. Clyde, gold. Shatt and tunnel, 6,000 tons; steam; mill. W. 8, Stevens, supt.
** **	Manzanita Gold Mining Co., Philadelphia, Ph., 83 Drevel Bilg, W. W. Gibbs, prest,; R. A. C. Smith, seey, and treas., Geo. V. Northey, mgr. Manzanita, gold and quick-silver. Tunnels: refractory, steam; 10 stamps and 3 quartz mills. Geo. V. Northey, supt.
(P. O. Michigan Blutt) Ry, Auburn 692.	
Sutter Creek Amador Ry, Ione 692.	Belmont Gold Mining Co., Sur Francisco, Cal., 330 Pine st., Room 5. Martin Jones, prest.; U. E. Lufy, seey.; H. R. Lounsbery, treas.; J. H. Tibbits, mgr., Cap. 8tk, \$500,000, Belmont, gold. Shaft and tunied, 5500 fons; free; horse; 10 stamps. J. H. Tibbits, supt.
	Hector Gold Mining Co., San Francisco, Cal., 547 Clay st. T. B. Valentine, prest.; James B. Hughes, seey.; D. B. Francis, treas. Cap. stk. 8300,000. Hunter, gold. Shaft, free, water. S. D. Valentine, supt.

Three Rivers, ... Tulare Wm, O. Clough, Visalia, Cat. Lady Emma, gold and silver. Shaft and tunnel; free; water, ky, Visalia 782, 783.

Taylor Mine El Dorado (P. Gold Mining Co., San Francisco, Cal., 3at Pine 84., Room 4. W. S. Chapman, prest. Edw. F. Auburn 32 (16 m.).
Temescal San Bernardino Ry. S. Riversde 25 and E. Lacher. Cap. San. King Solomon and Queen Sheba, gold and silver. Tunnel, 5 tons; free; steam; 5 stamps. L. Lacher. Supt.

South Eureka Mining Co. J. L. Mayon, presh.; Jackson Dennis, seey, and treas. Gold. Shaft; water, J. F. Parks, supt.
Wildman Gold Wining Co., Boston, Mass., is Central st. W. Emerson, presh; Irving O. Whiting, seey, and treas, John Tregloan, mgr. Cap. 8tk, 8120,800. Wildman, gold. Shaft, 20,000 fons; free; water, 30 stamps. John Tregloan, supt.

RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
Town	AND	COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Timbuete (P, O	, Marys	Vuba ville.)	Marysville Tunnel & Quartz Mining Co. G. H. Boyd, prest.; P. J. Williams, secy.; J. A. Maben, treas F. B. Crane, mgr. Cap. stk. \$1,600,000. Marysville, gold and silver. Shaft and tunnel; free. F. I Crane, supt.
Trinity C Ry, Re	entre edding 6	Trinity 92 (51 m.).	Diddy & Conwell, Cap. \$10,000. Snow Gulch, gold, Placer; hydraulic.
		"	Parry Bros. Cap. \$500. Parry, gold. Placer; water. M. F. Parry, supt.
	vn′ Milton 6	Foulumne 92.	Gagnere Mining Co., San Francisco, Cal. C. O. Dean, prest.; Geo. R. Wilson, seey.; J. P. Gagnere, mg Cap. stk. \$10,000,000. Gagnere, gold. Shafts and tunnels; free; water; 20 stamps.
Dist (P. C	iinePah S. B J. River ewater	ns Mining ernardino side) Ry. 692.	Twenty-Nine Palms Mining & Milling Co., Riverside, Cal., 466 Magnolia av. Cap. stk. \$6,000. Oro Fin Oro Muneho and San Salvador, gold and silver. Shaft; free; hand and steam; quartz mill. The Bakewell jr., supt.
	rings.	Calaveras	Horsevill & Co., San Francisco, Cal. Horsevill, gold. Placer; free; steam and water. F. J. Horsevi supt.
Victor Ry, 6	. San B 92.	ernardino	Black Hawk Gold Co., Los Angeles, Cal. Jno. E. McFee, prest; Harry Del Mar, secy.; Alex. Del Marteas. Cap. 8tk. \$2,000,000. Black Hawk, gold. Tunnels and shafts; refractory; steam; 10 stamp mill.
** .		. **	Morongo Mining & Milling Co., Riverside, Cal. Dr. K. D. Sugart, prest.; S. H. Herrick, seey.; W. Sweatt, treas.; D. A. Wheeler, mgr. Cap. stk. \$1,000,000. Rose, gold. Shaft, 3,000 tons; refractor steam; 5 stamps. D. A. Wheeler, supt.
		**	Riverside Silver Development Co., Riverside, Cal., 178 Seventh st. W. A. Hoyt, prest.; S. S. Nowli seey.; Orange Growers' Bank, treas.; John S. Reece, ngr. Cap. stk. \$10,000. Silver Reef, gold at silver. Shafts and tunnels; free; horse. John S. Reece, supt.
**		**	Valley Gold Mining Co., Ltd., Holcomb Valley, Cal. W. E. Pedley, mgr. Valley, gold. Placer; hydraul F. Pedley, supt.
Volcano. Ry, I	one 692.	Amador	A. D. Gracey. Lone Willow, gold. Shaft and tunnel; free; steam; quartz mill.
55		**	A. H. Gracey & J. D. Matthew. New Castle, gold. Tunnel; free.
"		***	Volcano Gold Grayel Mining Co., Santa Cruz., Cal., cor. Cooper and Front sts. Christian Hoffmar prest.; F. D. Scott, seey.; Pacific Bank, treas.; John Eckart, mgr. Cap. stk. 86,000,000. Volcano, ge and silver. Open pit and tunnel, placer; free; hydramic, John Eckart, supt.
Walker Ry.	Yreka 6		Eli Kelly & Co. Cap. \$3,000. Manifold Compensator, gold. Open pit; water (developing).
Washing Ry. C	ton 'olfax 4	,Nevada 90,	Baltic Mining Co. Baltic, gold. Tunnel; free; steam; 20 stamps.
**		. **	German Mining & Milling Co., Roehester, N. V. H. M. Reichenbach, prest.; Albert Will, v-prest.; S. Passayant, seey.; R. R. Haskell, treas.; M. D. Cooley, mgr. Cap. stk, \$600,000. German, gold. Ta nel, free; water; 10 stamps. M. D. Cooley, supt.
		**	Fritz Meister, Alta and Waldeck, gold. Shaft and tunnel; water; 5 stamps, mill.
**		**	C. Phelps, Phelps, gold, Placer; free; hydraulic,
**		**	W. L. Williamson & M. M. Cole, Giant King, gold and silver, Tunnel; free; water,
Watsony Ry. 1	ille8 Elicott 6	anta Cruz 92,	Pajaro Mining Co., Sacramento, Cal., 429 J st. F. R. Waggoner, prest.; Jos. W. Tryon, seey.; Stant Myers, treas.; R. D. Waggoner, mgr. and supt. Cap. stk. \$10,000. Pajaro, gold and iron. Tunn 3,000 tons; free; mill.
Weavery Ry. 1	rille Redding	Trinity 692.	Trinity River Hydraulic Gold Mining Co., Denver, Colo., Boston Bldg. Wm, Gelder, prest.; L. L. Ball secy, and treas.; A. G. Dunbar, mgr. Cap. stk, \$000,000. Hubbard, Denver and Turner, gold. Plac
Wieland Ry, 1	lone 26.	Amador	Clinton Consolidated Gold Mining Co., San Francisco, Cal., 234 Montgomery st. Chas. S. Wieland, pres Chas. E. Gunn, seey. Nevaala Bank and Wells, Fargo & Co, treas. Cap. stk. \$5,000,000 (Bliton Co solidated, gold and silver. Tunnel and shaft, 27,000 tons; free; steam and water; 30 stamps. Jo B. Ferris, supt.
William Ry, C		Colusa	H. M. Cooper, Cap. \$60,000. Clyde, gold. Shaft and tunnel; free; steam; mill. James Hawkins, supt
	Auburn	. Nevada 692,	Live Oak Consolidated Gold Mining Co., San Francisco, Cal., 1011 Fourth st. J. A. Maffett, prest.; II. Goethe, seey.; D. O. Mills & Co., treas. Cap. stk. \$25,000. Live Oak, gold. Shaft (developing).
You Bet Ry, 4	1900,	Nevada	G. S. Brown, Brown's, gold. Slope and hydraulic; free; water; 8 stamps.
			Jas. McManus. Cap. \$250,000. Fool's Hill, gold. Tunnel, 2,000 tons; free; water; 10 stamps.
Yreka Ry. (			Eli Kelly. Bullion, gold. Shaft; free; hand and water.
			IRON

IRON		
LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL LOCATION OF PHINCIPAL OPEICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.	
	California Iron, Steel & Tin Plate Co., Albuquerque, X. M., T. R. Gable, prest.; C. L. Hubbs, seey, and mgr.; Jesse Authony, treas. Cap. stk. \$5,000,000. Dick Turpin and Tip Top Groups. Shafts; free. H. H. Pitcher. Mendenhall, 1,000 tons, chrome, iron. Jos. Tickell, supt.	

Guerneville.

Middletown

#### IRON (CONTINUED)

LOCATION OF MINE NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT. AND SHIPPING POINT. W. Copeland (lessee), Monterey st. W. Copeland, prest, and mgr.; Capt. Fancher, seey.; L. Rackliffe freas. Pick and Shovel, chrome, iron. Tunnel, 80 tons, hand. W. Copeland, supt. San Luis Obispo, San Luis Obispo Ry, Port Hartford 552. MICA LOCATION OF MINE. Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF PRODUCT, KIND OF MINE. ANNUAL OUTPUT IN TONS OF 2,900 POUNDS, KIND AND SHIPPING POINT OF POWER USED, ETC., AND NAME OF MINE SUFERINTENDENT, AND Lang ... Ry, 26. "Los Angeles, C. H. Clayton, Cap. \$5,000. McKinley. Open pit; hand. MINERAL PAINT LOCATION OF MINE NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME OF MINE. KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2.001 POUNDS, KIND AND SHIPPING POINT. OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT. COUNTY Town Tehama Tehama Consolidated Chrome Co. P. C. Crumbaugh, prest, and treas., J. A. Heslewood, seey, and mgr. Cap. 8tk, \$200,000. Tehama, chrome. Open pits, 3,000 tons; hand, J. A. Heslewood, supt. Red Bluff Rv. 692, 640. QUICKSHAVER AND ANTIMONY LOCATION OF MINE Name of Company of Individual, Location of Principal Office, Names of Officers, Cafital Stock RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF ORE, KIND OF MINE, ANYTHE OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT. AND SHIPPING POINT. Tows AND Etna. ... Napa (P.O. Lidell) Ry. St. Etna Qulcksilver Mining Co., Boston, Mass., 126 State st. John G, Wright, prest.: Henry Hastings, seey, and treas; M. G, Rhodes, mgr. Cap. Etha Mines, quicksilver, Sharts, humels and slopes, 10,000 tons; cimulatr; steam and air; furnaces, M. G, Rhodes, supt. Helena 692.

Napa Black Bear Consolidated Quicksilver Mining Co. J. O. Culver, prest; W. L. Culver, seey, and treas.; L. W. Fee, ngr. Black Bear, quicksilver. Tunnel and shaft; free. L. W. Fee, supt. Calistoga Rv. 692. Eastern Quicksilver Co., San Francisco, Cal., 420 Montgomery st. T. A. Mudge, prest.; F. A. Berlin, secy. Cap. stk. \$200,000. Liverpool, Plymouth, etc., quicksilver. Shaft; steam. Great Western Quicksilver Mining Co., San Francisco, Cal., 328 Montgomeryst, Gilbert Palache, prest; Abraham Halsey, seey.; H. M. Newhall & Co., treas, Cup. 8tk, \$5,500,000. Great Western, quicksilver, Shaft and Immel 24,500 tons; climabar; steam; furnaces, Andrew Rocca, Supt. Cambria, San Luis Obispo Oceanic Quicksilver Mining Co., San Francisco, Cal., 320 Sansome st. Peter Dean, prest. Oceanic, quick-Ry, San Simeon 552. Silver. Open cuts, tunnel and shaft, 25,000 tons, cinnabar; steam; turnace.

Sonoma Great Eastern Quicksilver Mining Co., Oakland, Cal., 611 Market st. Richard Abbey, prest.; Alfred Abbey, seey, and mgr. Great Eastern, quicksilver. Shaft and tunnel, 10,000 tons; steam. Alfred Abbey, sup. Healdsburg

Sonoma Cinnabar King Mining Co. J. S. Young, prest.; J. W. Rose, seev.; W. P. White, treas.; Edward White, mgr. Cap. stk. \$600,000. Cinnabar King, quicksilver. Tunnel; hand. Edward White, supt.

San Benito Stayton Mining Co., San Francisco, Cal., 440 Pine st. R. F. Knov, prest.; F. Smith, seey, and treas. Cap., stk, \$50,000. Stayton, quicksilver. Shafts and tunnels; refractory; furnace. Hollister Rv. 692.

George Vaughan, Cap. \$25,000. Vaughan. Slope and tunnel; hand,

Kernyllle . Kern Sumner & Brown. Standard, antimony. Shaft and tunnel. J. W. Sumner, supt. Ry, Caliente Sta'n 692

Knoxville ..... Ry, Napa 552, ..Napa Antonio McMillan, San Francisco, Cal., 25 Second st. Cap. \$100,000. Redington, quicksilver. Shafts and tunnels, 10,000 tons; cinnabar; steam; furnace. Thomas Callaghan, supt.

Lake Mining Co., San Francisco, Cal., 410 Pine st. R. F. Knox, secy, and treas. Cap. stk. \$000,000. M. hattan, quicksilver. Shafts, tunnels and open pit; chundbar; steam; furnace. J. J. Harkins, supt.

. Shasta - Integral Quieksilver Mining Co., New York City, Room 18, 39 Broadway. Archibald B. Met'aw, prest.; a'n 692.

Win, J. Simpson, seey, and treas. Cap. 8tk, \$3,000,000. Integral, Blockade, Boston and 30 others, quieksilver. Shaft, tunnels, slopes, 60,000 tons; steam, electricity, water; furnace. Archibald B. Mct'aw, supt. Letand Ry, Castella Sta'n 692.

Lower Lake, . . . . Lake, J. C. Baker, Baker, quicksilver. Shaft and tunnels, 2,000 tons; horse and hand; retorts, C. Baker, supt. By. Calistoga 692,

Sulphur Bank Quicksilver Mining Co., San Francisco, Cal., 306 California st. Louis B. Parrott, prest.; T Wintringham, seey.; London and San Francisco Bank, Ltd., trens. Cap. stk, \$1,000,001, Sulphur, qulck silver. Open, 12,000 tons; steam; furnace. Richard White, sapt.

Lake Bullion Quicksilver Mining Co., Thos. Habishaw, mgr. Cap. 8tk. \$15,000. Bullion, quicksilver. Shaft and tunnel; cinnabar; horse; furnace, Ry. Callstoga 692.

Munz & Ransdell, Chicago, quicksilver. Shaft, tunnel and open pit; hand.

# QUICKSLLVER AND ANTIMONY-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.
New Ahnaden, Santa Clara Ry, 692.	Quicksilver Mining Co., New York City, 20 Nassau st. David Mahany, prest.; A. L. Bailey, seey.; Jas. D. Smith, treas.; R. R. Bulmore, agt. Quicksilver, Shaft and tunnel, 25,1782 tons; chinabar; steam and electricity; furnace. Jas. Harry, supt.
Oat Hill Napa Ry. St. Helena 692,	Napa Consolidated Quicksilver Mining Co., Boston, Mass., 56 State st. F. H. Odiorne, prest.; W. B. Bucknunster, seev, and treas. Cap. stk. \$700,000. Manzanita and Eureka, quicksilver. Shaft and tunnels, 20,000 fons; chimabar; steam; furnace. B. M. Newcomb, sup.
San Simeon, S, Luis Obispo Ry, 552,	Black Hawk Mining Co. John Seccombe, prest, and mgr.; W. S. Whitaker, seey.; Geo. Van Gorden, treas. Cap. stk. \$2,000; indv. cap. \$3,000. Black Hawk, quicksilver. Tunnels and slope; gray black; hand; reforts. John Seccombe, supt.
Sulphur CreekColusa Ry, 529,	Abbott Quicksilver Mining Co., San Francisco Cal., 310 Pine st. J. L. Rathbone, prest.; J. W. Pew, secy. Abbott, quicksilver. Slope and tunnel, 8,000 tons; cinnabar; steam; furnace. H. L. Lightner, supt.

SALT	
LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIFFING POINT.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock.  Name of Mine, Kind of Product, Kind of Mine or Well, Anneal Outfut in Tons of 2,000  Pounds, Kind of Power Used, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
Alvarado Alameda Ry, 552,	Crystal Salt Works, Newark, Cal. Cap. \$75,000. Crystal dairy. Salt marsh, 5,000 tons; evaporation. Plum mer Bros., supts.
Mt, Eden Alameda Ry, 552,	Capt. Richard Barron. 5,000 tons; sea water; evaporation.
19	F. Ohlson. 500 tons; evaporation from sea water.
D	Mrs. E. A. Oliver. Coarse. 1,500 tons; evaporation from sea water.
**	Union Pacific Salt Co., San Francisco, Cal., 216 Sacramento st. John Barton, prest., treas, and mgr.: W. F. Barton, secy. Coarse. 15,000 tons; evaporation,
Ofay, San Diego Ry, 552, 692.	La Punta Salt Werks. J. E. Shaffer (agent), San Diego, Cal. Coarse. 600 tons; steam; evaporation.
San Francisco . Alameda Ry, 26, 552, 692.	Solar Salt Works, 211 and 213 Sacramento st. Cap. \$35,000. Evaporation, 4,500 tons; steam. Gco. Beatties supt.
San Lorenzo Alameda Ry, 552.	Peter Mathiesen Salt Works. Hans Mathiesen, mgr. Coarse. Salt marsh, 1,500 tons; evaporation; han and horse.
SitesColusa Rv. 692,	Antelope Crystal Salt Co., J. W. Good, prest.; T. Harrington, secy.; Colusa County Bank, treas.; J. I Rathburn, mgr., Cap. stk, \$50,000. Coarse. Well, evaporation; horse., J. P. Rathburn, supt.

# SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
Kelsey El Dorado Ry, Placerville 692.	Jacob Strahle Slate Co., San Francisco, Cal., 533 Market st. W. E. Shipman, prest.; R. J. Davis, secy, and treas.; Jacob Strahle, mgr. Cap. stk. \$100,000. Strahle. Open. 2,000 tons: water.
Placerville El Dorado Ry, 692,	El Dorado Big Tunnel & Mining Co. H. S. Morey, prest.; Geo, W. Kimble, seey.; Thos, Alderson, treas.; L. McNeil, mgr. Cap. stk. \$100,000. El Dorado. Open and tunnel; water. L. McNeil, supt.
44	Perine & Mothersole, Chili Bar, Cal. Chili Bar, open; water. Geo, A. Mothersole, mgr.

SODA	
Location of Mine. Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Keeler Inyo Ry. 108.	Inyo Development Co., Carson, Nev. H. M. Verington, prest.; G. F. Ford, Seey, and treas.; L. F. J. Winkle, mgr. Cap. 8tk, \$1,250,000. Owen's Lake, soda. Placer, 2,000 tons; steam; mill, 6,000 tons. L. F. J. Winkle, supt.

# STONE, MARBLE, GRANITE AND ONYX

13.1	ONE, MARIDIE, CRANTIE AND ONEX
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARET, KIND OF STONE, KIND OF MINE OR QUARET, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	APACITY, ETC., AND NAME OF ARINE SCIENTIFICATION.
Acton Los Angeles Ry, 692.	R. E. Niekel. Cap. \$5,000. Red sandstone. Open pit; hand.
Ry, 651.	M. K. Cady. Cap. \$50,000. Basalt. Open pit; hand.
Bayside	Pacific Coast Construction Co., Eureka, Cal. A. Ballantyne, prest.; W. Simpson, seey.; Thomas Brown, treas, and supt.; James Simpson, mgr. Cap. stk. \$00,000. Jacoby Creek, sandstone. Open pit, 70,000 (ons; steam; mill.)
Ry Oakdale 6(2,	Columbia Marble Co., San Francisco, Cal., 347 Brannan st. Cap. \$75,000. Columbia, marble. Open pit; water; marble; mill.
Cordelia Solona Ry, 692.	Alex, McNaughton, Cap. \$2,000. Haden Hill Quarry, basalt. Open; horse; mill, 1,000 tons.
	E. R. Thomason, San Francisco, Cal., 28 Phelan Bldg. Cap. 850,000. Thomason's Quarry, basalt. Open, 100,000 tons; steam; crusher. Wm. Nickel, supt.
(P. O. Raymond) Ry. 692.	Day Granife Co., San Francisco, Cal., 1000 Scott st. Granife. 40,000 tons; steam. I. G. Day, supt.
EdnaSan Luis Obispo Ry. Rock Siding 551, 692.	Consolidated Bituminous Rock Co., San Francisco, Cal., Room 14 Phelan Ridg. A. C. Bassett, prest.; F. C. Lewis, seey., Anglo-Californian Bank, Ltd., treas., Jas. H. Switt, mgr. Cap. stk. \$500,000. Bituminous. Open, 20,000 tons; hand.
ExeterTulare Ry, 692.	supt.
Felton Santa Cruz Ry, 692.	H. T. Holmes, Line Co., Sun Francisco, Cal., 321 Mission st. H. T. Holmes, prest.; E. H. Hawkins, seev.; Win, Jones, Ireas. Cap. stk. 8750,000. Holmes. Open, 1,000 tons; hand; limeklins, 4,000 tons. Win, Russell, supt.
Gaylota Santa Barbara (P.O. Los Angeles) Ry. 552.	mgr., L. F. Graves, secy.; W. E. Pfle, treas. Cap. stk. \$250,000. Gaviota, bituminous rock. Open ptf.
Hillsdale Santa Clara Ry, Graystone 692.	Jacob Pfeiffer, Graystone Station, Cal. Cap. \$10,000. Goodrich, sandstone. Slope, 2,600 tons; steam, hand, John Pfeiffer, supt.
Inyo, Inyo Ry, tos.	Inyo Marble Co, of California, San Francisco, Cal., 137 Montgomery St. Julius Jacobs, prest.; Geo, W. Luce, seeg.; G. P. Rixford, freas, and mgr. Cap. stk. 81,000,000. Inyo, marble. Upen, pif, 3,000 tons; steam and water; marble. W. C. Pildge, supt.
King City . Monterey Ry, 692.	H. G. Livingstone. San Lorenzo, bitaminous rock. Slope, 100 tons, hand.
Lime Kiln	<ul> <li>Pogne &amp; Sons, Lime Kiln, Cal. Kaweali Lline Works, marble and lime. Open pit, 989 tons; kiln, t.000 tons.</li> </ul>
Lincoln Placer Ry, 692.	Byrne Bros. Cap. \$2,000. Granite. Open pit; 300 tons; steam.
the second of the second	T. L. Coffey. Cap. \$1,000. Granite. Open plt, 360 tons; horse.
**	T. H. Jeter, Cap. \$5,000, A. X. L., granite. Open pit, 2,000 fons; horse.
	<ul> <li>Carlaw Bros., Sacramento, Cal., Tenth and R sts. Cap. \$25,000. Carlaw, granite. Open pit, 2,000 tons; horse; gang sawmill. Geo. W. Turner, supt.</li> </ul>
" . "	M. J. Healy & Co., San Francisco, Cal., 314 Montgomery st. Cap. stk, \$20,000. Loomis, granite. Open pit, 2,400 tons; steam. W. E. Cook, Supt.
* *	Western Grantie & Marble Co., San Jose, Cal., 370 N. First St. B. D. Murphy, prest.; W. K. Beans- seey.; Commercial Bank, treas.; O. H. Barnhart, mgr., Cap. 84k, \$100,000. Crystal Lake and Loomis, grantie, 2,500 tons; steam; mill. J. A. Grant, supt.
Lordsburg, Los Angeles Ry, 26.	W. P. Rhoades, Los Angeles, Cal., 125 W. Second st. Lordsburg, red sandstone. Hand.
Los Angeles   Los Angeles Ry, 26 and 692.	c Lauravein Granife Co., Los Angelos, Cal., cor. Requena and Wilmington 848. F. T. Craig, prest.; J. J. Craig, seey.; J. H. Craig, treas.; M. Craig, ingr. Cap. 848, 840,000. Lauravein, granife. Open pit, 1200 tons; Dorse. John H. Craig, supp.
Los Gatos - ,Santa Clara Ry, 692,	1 Los Gatos Lime Co., San Francisco, Cal., 33 Montgomery st. T. Lemmen-Meyer, prest.; W. S. Somervell, seey.; George E. Whitney, trens.; John E. Ellis, mgr, and supt. Cap. stk. \$50,000. Los Gatos Lime Co. S Quarry, blue limestome. Open pd. 5,500 tons, Jand. klin. (255 tons.)
Los Guilicos, Sonoma (Nota P.O. Ry. 651, 612	N. W. Griswold, San Francisco, Cal., 29 New Montgomery st. Basalt. Open, 250 tons; hand; mill.
	1 E. D. Bridges, P. O. Box 139. Pine Grove, granite. Open, 1,000 tons; horse and hand; mill.
Niles Alameda Ry, Farwell's Spur 692	<ol> <li>Bank of California, treas. Cap. 8tk. \$100,000. Niles &amp; Farwell, sandstone. Open, 300,000 tons; norse and hand. Wm. Farwell, supt.</li> </ol>
Oakland Alameda Ry, Leona 692.	4 California Improvement Co., 1963; Broadway, Rooms 24 and 25. W. H. Bailey, prest.; W. M. Rank, seey and freax; F. H. Meyers, mgr. (ap. sik. \$500,000. Laundry Farm, blue rock. 60,000 tons; steam crusher, W. H. Masterman, spir.
**	Oakland Paving Co. (local), 906 Broadway. C. T. H. Palmer, prest, and freas.; C. T. Blake, secy. Cap. stk. \$30,000. Trap rock. Open; steam and hand; crisher. M. H. Eastman, supt.
Penn's Grove Sonoma Ry, Petaluma 651.	a Wilkinson & Kellas. Cap. stk. \$1,000. Harper's, basalt. Open pit, 1,000 tons; hand.
	a John Lynch. Basalt. Slope, 1,500 tous; hand. John Lynch, supt.

Plymouth.......Amador Amador Marble Co., Oakland, Cal., P. O. Box 338. Ernest Hough, seey.; D. E. Collins, treas, and mgr. Ry, Carbondale 622. Amador, marble, 300 tons; water; mill. D. McAdams, supt.

# STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

	LOCATION OF MINE	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT,		Name of Mine or Quarry, Kind of Stone, Kind of Mine or Quarry, annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stone or Marrie Mills, Limerilus and
	TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.
	Raymond Fresno Ry, 692.	Day Granite Co., San Francisco, Cal., 1009 Scott st. Day, granite, Open, 8,000 tons; steam.
		A. McLennan, San Francisco, Cal., 1616 Jackson st. Cap. \$20,000. McLennan's, granite. Slope; steam.
		J. F. Milne & Co., Box 61. J. F. Milne, mgr. Cap. stk. \$2,500. Milne, granite. Slope; hand,
	**	Raymond Granite Co. James Mildrum, prest.; John Bowrie, secy.; J. Hutcheon, treas.; Alex. Mann, mgr. and supt. Mann's, granite. 150,000 tons; hand,
•	Riverside, San Bernardino Ry, 692.	G. W. Clark, Box 301. Cap. \$10,000. Casa Blanca, granite. Open pit and slope, 20,000 tons; horse and hand. G. W. Clark, supt.
	14	Evans & Middleton, Box 737. Cap. stk. \$14,500. Arlington, granite. Open pit, 1,700 tons; hand; mill.
	Rocklin, Placer Ry, 692,	Copp & Waters, Copp & Waters, white granite. Open pit, 1,500 tons; steam.
	** **	Degan & Brady, San Francisco, Cal., 423 Eleventh st. Cap. \$150,000. Degan & Brady's, granite. Open pit, 200,000 tons; steam; mill. P. Cloon, supt.
	** **	Hytiner & Wickman, Box 24. Granite. Open pit; horse.
	** **	Rocklin Granite Co., Oakland, Cal. 1, L. Delano, prest, and mgr.; Ernest Hough, secy, and treas. Cap. stk. \$50,000. Rocklin, granite. Open pit, 4,000 tons; steam; mill. 1, L. Delano, supt.
,	San DiegoSan Diego Ry. 649.	Clark-Rockfellow Granite Co., 1234 D st. E. F. Rockfellow, prest, and secy.; C. E. Clark, mgr. Cap. stk. \$10,000. Granite, Open pit; steam; polishing; mill.
	*	Excelsior Paving Co., Consolidated Nat. Bank Bldg. J. W. Thompson, prest.; Gratz K. Brown, seey, and mgr.; Consolidated Nat. Bank, treas. Cap. stk, \$50,000. Rockville, porphyry. Open, 20,000 tons; steam; crusher. Chas. M. Hough, sapt.
	San Luis Obispo San Luis Obispo Ry, 551.	San Luis Obispo Bituminous Rock Co., Los Angeles, Cal., 214 S, Broadway, W. J, Brodrick, prest.; G. A. Dobinson, seey.; First Nat. Bank of Los Angeles, treas.; J. A. Fairchild, mgr. Cap. stk. \$5,000,000. Bituminous rock. Open, 20,000 tons; hand.
	Santa Cruz Santa Cruz Ry, 551, 692.	Consolidated Bituminous Rock Co., San Francisco, Cal., Room 143 Phelan Bldg. A, C, Bassett, prest.; F. C. Lewis, seey.; Anglo-Californian Bank, Ltd., treas.; Jas. H. Swift, mgr. Cap. stk, \$500,000. Bituminous. Open, 20,000 tons; hand.
	49	N. P. Perine Paving and Construction Co., San Francisco, Cal., 116 Phelan Eddg. N. P. Perine, prest.; R. C. Mattingty, seey.; Pacific Bank, treas.; Frank Walker, mg. Cap. stk. \$100,000. Ennight Deposit, bituminons rock. Open pit and slope, 5,200 tons; hand. J. A. Ennight, sapt.
	Santa RosaSonoma Ry, Annabel 692,	C. G. Borg & H. C. Patridge, San Francisco, Cal., 302 Montgomery st. Annabel, basalt block. Open pit. 39,000 tons; hand. C. G. Borg, supt.
	** ************************************	City Street Improvement Co., San Francisco, Cal., Merchants' Exchange Bidg., Room 32. J. W. McDonald, prest, and mgr.; W. E. Dennison, secy. McDonald, basait block. Open pit, 566 tons; hand; mill. Thos., O'Comor, supt.
	19	T. A. Ducharm, Cap. \$21,758. Ducharm, granite. Open pit; hand; milk. T. A. Ducharm, supt.
	*	J. W. McDonald, San Francisco, Cal., 234 Montgomery st. Cap. \$100,000, Basalt rock, Open pit, 700,000 tons; hand, Thos. O'Connor, supt.
	Sonoma Sonoma Ry, 651.	H. C. Manuel, El Campo, stone. Open pit; horse and hand; mill, Harvey Manuel, supt.
	* *	J. W. McDonald, San Francisco, Cal., 234 Montgomery st. Cap. \$100,000. Basalt rock. Open 430,000 tons; hand. A. Pinelli, supt.
	South Riverside, San Bernardino Ry. 26,	Porphyry Paving Co., Los Angeles, Cal., 41 Baker Block, J. O. Wheeler, prest.; H. A. Palmer, seey.; Farmers' & Merchants' Bank, trens.; Gratz K. Brown, ingre Cap, stk, \$100,000. Porphyry. Open, 20,000 tons; steam, emblers. Frank McBride, supt.
	Sutter CreekAmador Ry, Jone 692.	Carrara Marble Quarry of Amador Co., San Francisco, Cal., 506 Battery st. Paul Barbieri, prest.; Charles Dondero, secy; Bank of California, treas. Cap. 8tk. \$500,000. Carrara, marble. Open, 2,500 tons; hand; mill.
	Temecula Sta San Diego Ry. 26.	C. N. Fernald & Son. Cap. \$4,000. Granite, 200 tons; hand,
	VictorSan Bernardino Ry, 692,	Conrad Scheever, Los Angeles, Cal., 227 W. First st. Cap. \$20,000. Granite and marble. Open pit, 17,640 tons; hand; marble mill.

" Verde Antique Marble Co., National City, Cal., National av, and Tenth st. Verde Antique, marble. Open pit: hand; marble mill. Geo. K. Phillips, supt.

SEE ALSO SUPPLEMENTARY LIST

# **COLORADO**

# ASPHALTUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Rangely ... Rio Rv. Frulta 215.

Rio Blanco R. Tovey and others, Cap. \$50,000, Tunnel, R. Tovey, supt.

#### CEMENT

Loc	ATION OF	MINE
	OR QUARI	RY.
		R ROUTES
AND	SHIPPING	POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, CEMENT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Colorado City

El Paso
The Stewart Stucco & Cement Co., Colorado Springs, Colo., 116 N, Water st. John Curr, prest.; J. E. Melntyre, seey., G. H. Stewart, gen. ngr. and seey. Cap. stk. \$50,000. Cement. 3,000 tons, steam; water; mill, 3,000 tons.

#### COAL-ANTHRACITE

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME ASD KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2019 POUNDS, KIND OF FOWER USED, COAL BREAKERS, WASHERS, CÓBE OVERS, AND NAME OF MINE SUPERINTENDENT.

Anthracite Ry, Crested Butte 215

Gunnison Colorado Fuel Co., Denver, Colo., 701 Roston Bldg. J. C. Osgood, prest.; D. C. Beaman, seey.; A. C. Butte 215. Cass, treas, 34. A. Kebber, mgr. Cap. 8tk, \$5,000,000. Anthracite No. 1. Tunnel, 84,288 tons, sleam and horse; breaker. N. C. Wheeler, snot.

Veta . . . . Huerfano John Herbin (local). Tunnet and shaft, hand, Ry, 215.

#### COAL-BITUMINOUS

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.

AND COUNTY Town

Baldwin . Rv. 776. .Gunnison Union Pacific Coal Co., Omaha, Neb., Ninth and Farnani sts. G. W. Megeath, gen. supt. Cap. stk. \$20, 000,000, Baldwin. Shaft, 14,571 tons; steam. John Webb, supt.

Berwind

Las Animas Colorado Coal & Iron Co., Pueblo, Colo. Edward J., Berwin, prest., Thomas E. H. Curtis, secy, and treas.; E. M. Steck, gen. mgr. Cap. stk. \$10,000,000. El Moro No. 2. Slope, 180,000 tops; steam. David Allen.

Boulder .. Rv. 776

Boulder Allen & Bond (local). Slope, 1,000 tons, steam. H. W. Allen, supt

The Boulder Coal & Fire Clay Co. Thomas C. Johnson, prest.; J. B. Hiskey, secy.; James C. Hawkins, treas.; T. C. Johnson, mgr. Slope, 90,000 tons.

Canfield . Ry, 776.

Chandler.

Boulder Charles Dale, Cap. \$5,000. Standard. Shaft, 5,000 tons; steam.

Canon City . . . F Ry. 26, 215, 776,

Fremont United Coal Co., Denver, Colo., 524 Ernest & Cranmer Bildg. James Carmon jr., prest., C. L. Spencer, seey.; 6. J. J. Thomas, nigr. Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.

Cardin. Ry. 26.

Garfield Grand River Coal & Coke Co., Colorado Springs, Colo. J. B. Wheeler, prest.; S. S. Earle, seey.; W. S. Cherry, v.-prest and gen. mgr. Cup. stk. 82,000,000. Spring Gulch, Marion and Sunshine. Tunnel and slope, 22,0000 tons; steam; 250 coke ovens, capacity 75,000 tons. J. Anderson, supt.

Ry. 26, 215. Coal Creek ... Rv. 215.

Fremont The Western Fuel Co., Pueblo, Colo., 415 C.St. J. H. Bennett, prest.; G. J. Dunbaugh, seey, and treas.; J. A. Joy, mgr. Cap. stk. \$500,000. Chandler. Shaft, 100,000 tons, steam. G. A. Shields, supt. Fremont Colorado Coal & Iron Co., Pueblo, Colo. Edward J. Berwind, prest.; Thomas E. H. Curtis, seey, and treas.; E. M. Steck, gen. mgr. Cap. stk, \$10,000,000. Coal Creek. Slope, 200,000 tons; steam. Robert Milliken, supt.

Ry. Lafayette 88,

Boulder Baker Coal Mining Co., Denver, Colo., 1635 Champa St. E. B. Light, prest.; Ben Macdonald, secy, and treas.; D. W. Davis, mgr. Cap. stk. \$10,000. Baker, Slope, 25,000 tons; steam. Thos. Vaughen supt. The Colorado Fuel Co., Denver, Colo., 794 Boston Block, J. C. Osgood, prest.; D. C. Beaman, seey.; A. C. Cass, Ireas.; J. A. Kebler, mgr. Cap. stk, 85,000,000. Coalridge No. 5. Tunnel, slope, 11,211 tons; steam, horse, Paul Blount, supt.

Coalridge... Gartield Ry, Newcastle 26, 215,

Montezuma George E. Houser (local), Giant. Tunnel, slope, 50 tons; horse, hand. S. J. Houser, supt.

Crested Butte Ry, 215.

Glorado Coal & Iron Co., Pueblo, Colo, Edward J. Berwind, prest.; Thomas E. H. Curtis, seey, and treas.; E. M. Steck, gen. mgr. Cap. 8tk, 800,000,000. Crested Butte No. 2. Slope, 220,000 tons; steam, 154 coke overs, 60,000 tons. Vm. Grant, squt.

# COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COAE OVERS, AND NAME OF MINE SUPERINSTENDENT.
TOWN AND COUNTY.	COAD DIREALERS, WASHERS, COAD OVERS, AND DAME OF MINE SUPERIALENDERS.
De Beque	Shirley & Hinds. Cap. \$10,000. De Beque and Jenkins. Tunnel; hand (developing).
Ry. 215.	Rollins Bros. (local). Cap. \$3,000. Rollins. Tunnel; hand.
44	E. B. Wilson, Montrose, Colo. Cap. \$2,000. Delta. Tunnel; hand (developing).
**	J. J. Winton & J. D. Roberts, Delta, Colo. Cap. \$20,000. Tunnel, 2,000 tons; horse. J. J. Winton, supt.
	Champion Coal Co. Benjamin Ritter, prest.; M. J. McCloskey, seey.; Mr. Boyle, treas.; A. Shore, mgr. Cap. stk. \$900,000. Champion. Tunnel; steam (developing). Benjamin Ritter, supt.
**	San Juan Coal Co. J. E. Ward, prest.; M. L. Peck, seey, and treas. Cap. stk, \$100,000. San Juan. Slope, 40,000 tons; gravity. John Kolz, supt.
**	San Juan Smelting Co. Mine for own use.
44	Ute Coal & Coke Co. H. J. Ross, prest.; L. C. Jakway, secy., treas, and mgr. Cap. stk. \$150,000. Coppinger. Tunnel, 20,000 tons; horse. J. A. Coppinger, supt.
Engle Las Animas Ry, El Moro 215, 217,	Colorado Coal & Iron Co., Pueblo, Colo. Edward J. Berwind, prest; Thomas E. H. Curtis, secy, and treas.; E. M. Steck, gen, mgr. Cap. stk, \$10,000,060. El Moro No. 1. Slope, 360,060 tons; steam; 250 coke ovens, 90,060 tons. Alex, Pollock, supt.
Erie, Weld Ry, 776.	Boulder Valley Coal Co. John McKissick, prest.; J. M. Shrote, secy.; John G. McCartney, treas, and mgr. Cap. \$15,000, Boulder Valley. Shaft, 15,000 tons; steam.
*	North-Western Coal Mining Co., Denver, Colo. Chas, E. Quincy, prest.; W. H. Nicholson, secy.; Alfred J. Vivian, treas, and mgr. Cap. stk. \$100,000. Bonder Valley. Shaft, 365,000 tons; steam. Phelix MacKena, supt.
**	The United Coal Co., Denver, Colo., 524 Ernest & Cranmer Bidg. James Cannon jr., prest.; C. L. Spencer, secy.; J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.
Forbes Las Animas Ry, 215, 776,	The Trinidad Fuel Co., Trinidad, Colo. Geo. M. Forbes, prest, and mgr.; James L. Bridge, secy, and treas. Cap. \$1,000,000. Monarch. Tunnel, 120,000 tons; horse. Chas. S. Wood, supt.
GoldenJefferson Ry, 776.	J. B. & Wm. Church, Denver, Colo., 819 Seventeenth st. Cap. \$10,000. Star. Shaft, 4,272 tons; steam. Benjamin Rowe, supt.
" "	Golden Coöperative Co. Cap. \$7,000. Coöperative. Shaft, 7,500 tons; steam, horse. Geo. II, Goldsworthy, ngr. and supt.
**	Golden Pressed & Fire Brick Co., Denver, Colo., 819 Seventeenth st. J. B. Church, prest., treas, and mgr.: Benjamin Rowe, seey. Cap. stk, \$500,000. Star. Shaft, 4,172 tons; steam. Daniel Williams, supt.
**	White Ash Coal Mining Co. E. E. Goodrich, prest.; Geo. M. Butler, seey.; W. N. Whitehead, treas.; F. G. Batter, mgr. Cap. stk. \$300,000. Loveland, White Ash, Murphy. Shaft, 250,000 tons; steam. Evan Jones, supt.
Grand Junction Mesa Ry, 26, 215, 626.	W. T. Carpenter. Cap. \$100,000. Book Clift. Tunnel, 10,000 tons; horse and gravity.
Gray CreekLas Animas (P. O. Trinidad) Ry. 776.	Cameron, supt.
Gunnison	Gamnison Coal & Iron Co. W. Street, prest.; A. J. Reily, secy, and treas.; C. T. Siles, mgr. Cap. stk. 85,000,000. Castle Mountain. Tunnel; horse.
Hastings	Colorado Coke Co., Trinidad, Colo., 201 E. Main st. A. H. Danforth, prest.; D. A. Chappell, seey, and treas.; John Cameron, mgr. Cap. stk. \$106,000. Coke ovens, 35,000 tons; steam, horse. John Cameron, spot
54	The Victoria Coal Co., Trinidad, Colo., 201 E. Main st. Deles A. Chappell, prest, and mgr.; Sanford S. Murphy, seey.; W. R. Cumingham, treas. Cap. 81,680,600. Victor. Tunnel, 250,600 tons; steam, horse; Join coke ovens, 40,600 tons. John Cameron, supt.
Hebron Larimer Ry. Dillon 215, 776, 80 miles.	Riach Bros. (local). Little Grizzly. Shaft, 300 tons; horse.
King	Union Pacific Coal Co., Omaha, Neb., Ninth and Farmam sts. G. W. Megeath, gen. supt.: Geo. L. Black, asst. supt. Cap. stk. \$29,000,000. Como, Nos. 5 and 6. Slope, 47,592 tons; steam. Thomas Ramsay, supt.
Lafayette Boulder Ry, 776,	Padfield & Hopkins, Cap. \$40,000. Gladstone. Shaft, 60,000 tons; steam. Wm, Padfield, supt.
**	The United Coal Co., Denver, Colo., 524 Ernest & Cranmer Bldg. James Cannon jr., prest.; C. L. Spencer seey.; J. J. Thomas, mgr. Cap. stk, \$1,000,000. Shaft, drift; steam. John Simpson, supt.
La Veta	W. H. Adamson, Cap. \$5,000, Indian Creek, Tunnel, 5,000 tons; horse, E. Frankenbery, supt.
Louisville Boulder Ry. 776.	Chamber, treas. Cap. stk. 5100,000. Achie. Shart, Danie true, Achie.
11,110,	Ajax Coal Mining Co., Boulder, Colo, M. V. Johnson, prop. Cap. \$50,000, Ajax, Shaft, 20,000 tons; steam Thomas Jones, supt.
**	The Citizens' Coal & Coke Co., Denver, Colo. Thomas Trumbull, prest.; Thomas E. Basset, seey. Shaft 36,000 tons; steam.
	The Heela Coal Mining Co. J. H. Hood, prest, and mgr.; Wm. Cawdrey, seey.; J. P. Donley, treas. Cap sdk, \$100,000. Heela. Shaft, 36,000 tons; steam. J. Hood, supt.
	The United Coal Co., Deuver, Colo., 524 Ernest & Cranmer Bidg. James Cannon jr., prest.; C. L. Speucer seey.; J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift; steam. John Simpson, supt.
Marble Gunnison	Pacific Coal & Coke Co., Denver, Colo., 802 Boston Bldg. Orlando Metcaif, prest.; Wm. F. Reed, seey, and

Marble ... Gunnison Pacific Coal & Coke Co., Denyer, Colo., 822 Boston Bidg. Orlando Metcaif, prest.; Wm. F. Reed, seey, and Ry. Elk Mountain 26, treas, Cap. 8tk, \$1,000,000. Tunnel; electricity (developing).

LOCATION OF MINE,

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

# COAL-BITUMINOUS-(CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,(0) POUNDS, KIND OF POWER USED,

TOWN AND COUNTY.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Meeker Rio Blanco Ry, New Castle 215.	F. W. Fairfield & Sons, Meeker, Colo. Peacock. Tunnel.
0	Harry Golden, Cap. \$5,000. Meeker. Tunnel, 1,200 tons; horse and hand.
MorrisonJefferson Ry, Mt. Carbon 776,	B. Prince & Son. Mount Carbon. Slope, 18,000 tons; horse. B. Prince, supt.
New Castle Garfield Ry. 26, 215.	Grand River Coal & Coke Co., Colorado Springs, Colo. J. B. Wheeler, prest.; S. S. Earle, seey.; W. S. Cherry, v. prest, and gen, mgr. Cap. 84k, \$2,000,000. New Castle. Shaft, slope, tunnel, 150,000 tons; steam. P. Coryell, supt.
Paonia Delta Ry, Delta 215.	Paonia Coal Co., W. T. Hawkey, prest., T. C. Ward, seey.; W. A. Clark, treas.; Wesley Ault, mgr. Tunnel; horse (developing).
Picton Huerfano Ry, 215, 776.	The Colorado Fuel Co., Denyer, Colo., 704 Boston Bldg. J. C. Osgood, prest.; D. C. Beaman, seey.; A. C. Cass, Ireus.; J. A. Kebler, ngr. Cap. 8tk, \$5,000,000. Picton No. 6, Slope, 77,161 fons; steam, horse, Thomas Lawther, supt.
Platte Canon - Jefferson Ry, 776.	T. L. Morgan (local), Shaft,
Porter . La Piata (P.O. Durango) Ry.215.	Porter Coal Co., Denver, Colo., 804 Boston Bldg. J. A. Porter, prest.; J. H. Pullen, secy, and treas.; S. E. Herr, nigr. Cap. stk, \$300,000. Porter. Drift, 65,000 tons; steam. Thomas Mason, supt.
Rico . Dolores Ry, 628.	Broughton & Derby (local). Pasadena. Tunnel, 4,000 tons; horse and hand. J. Richards, supt.
Ridgway Ouray Ry, 215.	J. O. Gorman, Cap. \$3,500. Tunnel; steam (developing).
Rouse . Huerfano Ry 215, 776.	The Colorado Fuel Co., Denver, Colo., 764 Boston Bidg. J. C. Osgood, prest.; D. C. Beaman, secy.; A. C. Cass, trenx; J. A. Kebler, mgr. Cap. stk. \$5,000,000. Rouse No. 3. Slope, 203,657 lons; steam and horse, W. C. Thompson, supt.
Santa Clara Huerfano Ry, 215, 776,	Colorado Coal & Iron Co., Pueblo, Colo. Edward J. Berwind, prest.; Thos. E. H. Curtis, seey, and treas.; E. M. Steck, gen. ingr. Cap. \$10,000,000. Santa Clara. Slope, 80,000 tons.; steam.
Slater Routt Ry. Rawlins 776.	Robert Mclutosh (local). Tunnel, 50 tons; hand,
Sopris Las Animas Ry, 215, 776.	The Colorado Fuel Co., Denver, Colo., 704 Boston Bldg. J. C. Osgood, prest.; D. C. Beaman, secy.; A. C. Cass, treas.; J. A. Kebler, mer. Cap. 84k, \$5,000,000. Sopris No. 4. Slope, 270,770 tons, steam, horse, 102 coke coren, 34,700 tons. W. J. Murray, supt.
Tindale Jefferson Ry. Raiston 776.	Denyer Coal Co., Ltd., Denyer, Colo., 501 and 502 Boston Bldg. T. W. Tindall, chairman; A. B. Seel, seey., Sam'l Newhouse, mgr. Cap. stk. \$500,000. Shaft; steam (developing). Jas. B. Miller, supt.
Trinidad , Las Animas Ry. 26, 215, 776.	E. T. Butler. Rowland, Tunnel, 5,000 tons; horse
	George Jeffryes, Bloom, Tunnel, 6,000 tons; horse,
	The United Coal Co., Denver, Colo., 524 Ernest & Cranmer Bldg. James Cannon jr., prest.; C. L. Spencer, seey., J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift; steam. John Sunpson, supt.
Walsenburg Huerfano Ry, 215.	Colorado Coal & Iron Co., Pueblo, Colo. Edward J. Berwind, prest.; Thos. E. H. Curtis, seey, and treas., E. M. Steck, gen. mgr. Cap. stk. 810,0000. Cameron, slope, 50,000 tons. Robinson, Slope, 120,000 tons, Walsen, slope, 60,000 tons; steam. Peter Cameron, supt.
Williamsburg . Fremont Ry, Florence 215.	The United Coal Co., Denyer, Colo., 524 Ernest & Crammer Bldg. James Cannon jr., prest.; C. L. Spencer, seey.; J. J. Thomas, mgr. Cap. stk, \$1,000,000. Shaft, drift, steam. John Simpson, supt.

Ry. Ralston 776.	Sam'l Newhouse, mgr. Cap. stk. \$500,000. Shaft; steam (developing). Jas. B. Miller, smpt.
Trinidad , Las Animas Ry. 26, 215, 776.	E. T. Butler. Rowland. Tunnel, 5,000 tons; horse
	George Jeffryes, Bloom, Tunnel, 6,000 tons; horse,
	The United Coal Co., Denver, Colo., 524 Ernest & Crammer Bldg. James Cannon jr., prest.; C. L. Spencer, secy., J. J. Thomas, mgr. Cap. stk. \$1,000,000. Shaft, drift; steam. John Sunpson, supt.
Walsenburg Huerfano Ry, 215.	Colorado Ceal & Iron Co., Pueblo, Colo. Edward J., Berwind, prest,: Thos. E. H. Curtis, seey, and treas., E. M. Steck, gen, mgr. Cap. stk. \$10,000,000. Cameron, slope, 50,000 tons. Robinson. Slope, 120,000 tons. Walsen, slope, 60,000 tons; steam. Peter Cameron, supt.
Williamsburg . Fremont Ry, Florence 215.	The United Coal Co., Denyer, Colo., 524 Ernest & Crammer Bidg. James Cannon jr., prest.; C. L. Spencer, seey.; J. J. Thomas, mgr. Cap. 8tk, \$0,000. Shaft, drift, steam. John Simpson, supt.
	COPPER
Location of Mine, Railways, Water Routes AND Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,99 POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Gunnison Gunnison Ry, 215.	J. F. Grant, Denver, Colo. Shaft, 2,000 tons; steam,
Salida	Sedalia Copper Co., Denver, Colo., eor. Larimer and Seventeenth 8ts. E. R. Emetson, prest.: J. W. O'Connor, seey, and treas. Cap. 8tk. \$500,000. Sedalia. Tunnel, 4,000 tons: hand.
	GOLD AND SHAER
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TOSS OF 200 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUFFRINTEDDENT.
Alder Saguache Ry, Round Hill 215.	C. P. Edmonds. North Star, gold, silver, lead. Shaft, refractory; hand (developing).
"	Maniton Mining Co., Poncho Springs, Colo, Frank M. Barnes, mgr. Cap. \$60,000. Manitou, gold, silver, lead. Tunnel; free; steam (developing). F. M. Barnes, supt.
	Amos Slater, Salida, Colo. Cap. \$3,000. Little Goldie Group, gold, silver, lead. Shaft, tunnel; free; hand.
Alicante Lake (P. O. Climax) Ry. 215, 776.	Alicante Mining Co., Climax, Colo. Alicante, gold, silver, lead. Shaft, tunnel, 5,500 tons; refractory.

Town

LOCATION OF MINE,

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND

### GOLD AND SILVER-(CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF DIRE, KIND OF MINE, ANNUAL OUTFOR IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINFENDENT.

Gold Field Mining Co., Leadville, Colo. Felly Vogel, prest. Gold Field, gold, silver, lead. 1,000 tons: retractory: steam.

T. & J. Shelton & J. Johnson, Leadville, Colo., 867 W. Elm st. T. Shelton, prest.; J. Shelton, seey, and treas.; J. Johnson, mgr. and supt. Hamilton Nos. I and 2, gold, silver, lead. Tunnel, 60 tons; refractory, free; hand.

Lake Joe Fischer & John Buffehr, Leadville, Colo., 3443 Sixth st. Cap, \$20,000. Ground Hog, gold, silver, lead Shaft, tunnel, 1,000 tons; free; hand. Joe Fischer, supt.

		hand.
**	**	Walter Scott Mining & Milling Co., Colorado Springs, Colo., 25 Hageman Block. M. L. Chapman, prest.: A. E. Carlton, secy.; A. B. Hockman, treas.; J. H. MeMisters, ngr. Cap. stk, \$500,000. Walter Scott. gold. Shaft, 5,000 fons; free; steam; 20 stamps. R. H. Milner, supt.
	**	G. C. Wortman, Climax, Colo. John Reed, gold, silver, lead. Shaft; refractory; horse, electricity.
Alma		Green Mountain Mining Co., Chicago, 1ll., Unity Bldg. John L. Beveridge, prest.; Jos. R. Putnam, seey.; H. N. Hibbard, treas.; R. M. Whipple, mgr. Cap. stk. \$1,000,000. Gold. Shaft (developing). Wm. H. Grose, supt.
	"	Hall & Brunk. G. W. Brunk, prest, and mgr.; John T. Brownlow, secy.; Assyria Hale, treas. Cap. stk. \$1,000,000. Dolly Varden, silver, gold. Shaft, funnel, 800 tons; refractory; steam; hand.
** · · · ·	**	The London Mining & Milling Co. Thomas Kiddie, mgr. and supt. London, Paris, Hard to Beat, and others, gold, silver, lead. Tunnel, 15,000 tons; free and refractory; steam; 20 stamps.
**	14	Mascotte Gold Mining Co., Denver, Colo., No. 505 Mining Exchange Bidg. W. F. Kendrick, prest; A. J. King, seev.; P. M. Kendrick, treas.; James Moynahan, mgr. Cap. stk. 82,000,000. 10 mines, gold and sliver. Shafts and tunnels; free and refractory; electricity and compressed air (developing).
**	**	James Moynahan, Phillips, gold, silver, Shaft; hand.
**	**	David Murphy. Baltic, gold, silver. Refractory; horse; 400 tons.
		The Orphan Ray Hill Cons, Mining Co., James Moyanhan, prest, and mgr.: Fremont Woodruft, seey.; John M. Walker, treas. Cap. stk, \$1,000,000. Orphan Boy, Senate, Evening Star, gold, silver. Tunnel, shaft, 10,000 tons; refractory; steam. James Minihan, supt.
* .		Phillips Mining Co., St. Louis, Mo., 416 N. Second st. Isaac M. Mason, prest.: George W. Boswell, secy.; H. H. Merrick, treas.; F. W. Buschman, ngr. Cap. stk. \$200,000, Phillips, gold, silver, Tunnel, 14,600 tons; refractory; steam; 50 stamps, J. H. Macdonald, supt.
	1 1 44	Francis H. Weeks. Moose, silver. Tunnel; refractory. John M. Fritz, supt. and mgr.
	"	The Woodmass of Alston Mining Co. Alfred H. Wilson, prest.; Randall W. Wilson, vpres, and mgr. Cap. stk. \$500,000. Great West, gold, silver, lead. Shaft, tunnel; free; horse. A. H. Wilson, supt.
Amethyst Ry, Jimtow	n 215.	H. Crawford, mgr. Cap. 8tk, \$1,000,000, rark Regent, Silver, lead. Steam. En barrett, Supt.
Asheroft Ry, Aspen 26	, 215 (12 m.).	Fitzpatrick & O'Hagan. Hendricks, silver, lead, copper. Tunnel; refractory; hand. J. F. Fitzpatrick, supt.
**	"	W. P. Green & J. Crowther, Elmira, silver, copper, Shaft, tunnel, W. P. Green, supt.
**	**	Calvin Miller. Cap. \$50,000. Rose, gold, silver. Shaft, 50 tons; hand (developing).
**	**	The Panorama Mining & Prospecting Co. J. M. Leahy, prest.; Fanny Fogg, secy.; J. J. Leahy, treas.; W. H. Fogg, mgr. Panorama, silver, lead. Tunnel; retractory; hand. J. M. Leahy, supt.
Aspen	. Pitkin	Jeroine B. Wheeler, vprest.; Louis H. Jackson, secy, and treas. Cap. stk. \$2,000,000. Alta Argent, silver. Shaft; refractory; steam and electricity. W. McMillan, supt.
	4.4	The Argentum-Juniata Mining Co., Colorado Springs, Colo. J. J. Hagerman, prest.; H. P. Lillibridge, secy, and treas.; R. J. Bolles, vprest.; C. E. Palmer, mgr. Silver (developing).
**	11	The Aspen Contact Mining Co., Colorado Springs, Colo. J. J. Hagerman, prest.; H. P. Lillibridge, secy, and treas.; D. M. Hyman, vpres.; W. E. Newberry, supt. Silver (developing).
** .	4.6	Aspen Mining Co. Aspen, silver. Shaft, 40,000 tons; refractory; steam, electricity. Henry Paul, supt.
	. **	Aspen Mining & Smelting Co., New York City, 54 Wall st., J. B. Wheeler, prest.; J. L. Tilton, seey.; Samuel S. Erle, freas.; Fred G. Bulkley, mgr., Cap. stk, \$2,000,000, Silver and lead. Shafts and timnels, 25,000 fons; cleetricity.
4.1	**	Best Friend Mining Co. John H. Greener, prest.; P. R. Mackin, seey, and treas. Best Friend, Sam Houston, gold, silver. Shaft, 1,000 tons; refractory; steam.
**		The Bi-Metallic Mining & Milling Co., Colorado Springs, Colo. J. J. Hagerman, prest.; H. P. Lillibridge, seey, and treas.; D. M. Hyman, vprest.; W. E. Newberry, supt. Silver (developing).
4.9	14	Della S. Consolidated Mining Co. David C. Brown, prest.; Theo. E. Little, seey.; H. P. Cowenhoven, freas.; D. W. Brunton, mgr. Cap. 8tk, \$1,000,000. Sliver. Shaft, tunnel; refractory; steam, electricity. Samuel Leonard, supt.
	**	Charles F, Drake Mining Co., Denver, Colo., Room 10 Hughes Bidg. Charles F, Drake, prest., S. W. Keene, vprest.; W. R. Root, seey. Cap. stk. \$1,000,000. Surprise, silver, lead. Tunnel; shaft; free; electricity.
44		F. C. Ewing & Co. Lena, silver. Shaft, tunnel; refractory.
*		Highland Mining & Tunnel Co., 300 West Hopkins st. Alois Thoman, prest; John B. Whitehead, seey., Charles Thoman, treas.; James W. Magee, mgr. and supt. Cap. stk. \$1,000,000. Wilton Belle, No. 2, Highland View, gold, silver, copper. Tunnel; refractory.
		Italian Mountain Mining Co. Frank Stewart, prest, and mgr.; C. P. Scroggs, secy.; E. C. Stimson, treas.; Cap. Stik, \$2,000,000. Homestake, silver, lead. Shaft; free; horse. D. J. Stewart jr., supt.
44	,,,,,,,	The Mollie Gibson Consolidated Mining & Milling Co., Colorado Springs, Colo. J. J. Hagerman, prest.; H. P. Lillibridge, secy, and treas.; R. J. Bolles, vprest.; C. E. Palmer, mgr. Mollie Gibson, silver.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANDRAIC OUTFUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STRAM PMILLS, ETC., AND NAME OF MINE SUPPERINCADINK.
TOWN AND COUNTY.	- The state of the
$\underset{(Continued.)}{\operatorname{Aspen}} \dots \underset{(Continued.)}{\dots \operatorname{Pitkln}}$	New York Tunnel Mining & Transportation Co., Chicago, Hl., 4 Sherman st. Frank Drake, prest.; W. L. Wright, secy.; Gilbert Montagne, treas. Cap. stk. \$2,500,000. New York, silver. Tunnel; steam.
"" "	Ophir Belle Mining Co., Room 12 Aspert Block, J. E. Freeman, prest, and mgr.; F. A. Shepard, seey.; W. T. Miltomberger, treas. Cap. stk. \$1,000,000. Ophir Bell Group, silver. Tunnel (developing). S. F. Hunt, sppt.
"	The Roaring Fork Mining Co. Fred G. Buikley, prest, and mgr.; W. P. Smith, sery.; A. P. Mackey, treas. Cap. stk. \$3,000,000, silver. Shaft; drift; steam (developing).
**	Sierra La Plata Mining Co., 400 Mill st., cor. Main. H. B. Gillespie, prest.; Charles F. Saunders, secy., treas, and mgr. Cap. stk. \$1,000,000. Woody Group, silver.   Developing.)
**	The Tenderfoot Consolidated Mining Co. W. W. Cooley, prest.; Henry Clark, seey, and treas. Cap. stk. \$2,000,000. Tenderfoot, Lillian Gray and others, silver. Tunnel (developing).
** **	Woody Creek Mining Co. F. C. Espenhain, prest.; A. Thomas, seey, and treas.; J. J. Yeckel, mgr, and supt. Cap. stk. \$1,000,000. Leadville, silver, lead. Shaft, tunnel; refractory; steam.
Bald Mountain Gilpin Ry. Black Hawk 776.	Rowena Mining Co., St. Louis, Mo., 220 North Main st.   H. Reinstedler, prest.: Henry Loschen, seey, and treas.; C. E. Stevens, mgr. and supt. Cap. stk. \$20,000. Ivanhoe, Rowena, Rebecca, gold, lead. Shaff, 3,200 tons; free; refractory; steam.
	The San Juan Mining & Milling Co., Denver, Colo., Room 36 Masonic Temple. A. J. Severance, prest. Cap. stk. \$1,000,000. San Juan, gold, silver. Shaft, 3,000 tons; steam. W. A. Merriell, supt.
Ballarat Boulder (P. O. Jamestown) Ry. Boulder 776.	Ballaraf Smuggler Mining Co., Denver, Colo., Room 7, Jacobson Block, W. E. Havtun, prest.; J. M. Houghton, seey, and treas. Cap. 8tk. \$500,000. Ballaraf Smuggler, gold, silver. Shaft, 500 tons; refractory; steam; 20 stamps. George M. Freeman, supt.
BarryEl Paso Ry, Florissanf 26 (18 mlles).	Alamo Mining Co., Colorado Springs, Colo., 16 East Plac's Peakary, F. E. Roblinson, prest.; E. W. Me-Neal, Sery; H. E. Bassett, Ireas; L. Adamson, mgr. and supt. Cap. stk. \$1,000,000. Little Hickle Berry, White Elephant and others, gold. Shaft, tunnel, open, s000 tons; refractory; horse.
**	Ameronda Mining & Milling Co., Denver, Colo., 1548 Wynkoop St., C. T. Harkhuson, prest; H. W. Barry, seev, and mgr.; S. I. Aliman, treas., Cap. Sik, 8125,009. Excelsior, Great Velin, Ameronda and others. Open pit, shaft, tunnel, 15,000 tons; refractory, free; electricity, steam; 15 stamps. F. A. Reynolds, supt.
4	Blue Bell Mining, Milling & Prospecting Co., Colorado Springs, Colo., 142 East Pike's Peak av. Josseph E. Handbury, prest, and mgr.; John S. Lentz, Seey., George W., Carr, Freas. Cap. 8th. 8500,000. Blue Bell, Blanche, R. E. Lee and Hardpan, gold, sliver, copper, lead. Shaft and tunnel; refractory, free; horse, Robert McLean, supt.
"	The Gold Eagle Mining & Milling Co., Colorado Springs, Colo. Daniel Gregg, prest.; W. H. Fairall, seey.; George Foster, treas. Cap. stk. \$1,000,000, Golden Eagle, gold. Tunnel; free; hand. E. H. Nelson, supl.
**	Gold Standard Tunnel & Mining Co. Eben Smith, prest., E. G. Bettls, secy, and treas.; H. W. Barry, mgr. Cap. stk. \$100,000. Gold Standard, gold. Tunnel; electricity. Ed. Gimlet, supt.
41	Mountain Tiger Mining Co. Samuel Gale, prest.; F. D. Taylor, secy.; Fred, Williams, treas.; J. C. Mc-Kenna, mgr. Cap. \$10,000. Mountain Tiger, gold. Tunnels, hand (developing).
	Work Minling & Milling Co., Colorado Springs, Colo., Midland Block. James Reshears, prest.; H. E. Bassett, seev.; H. A. Mills, treas.; J. T. Reed, mgr. Cap. 8tk, \$1,250,000, Poorman, Morning Glory, Ida B. and others, gold, silver. Shaft, tunnel; refractory; hand. J. skews, supt.
Ry, Florissant 26.	Cut Diamond Minling & Milling Co., Colorado Springs, Colo. A. H. Swaretient, prest.; G. H. Badúsh, seey., supt. and mgr.; L. S. Slatora, freas. Uap. stk. \$1,000,000. Gold. Shaft, tunnel; free; steam.
Ry. Arkins 776,	Palmer, Hart & Co. Cap. \$50,000. Peacock, White Quall, gold, sliver. Shaft: refractory; hand. James A. Downar, supt.
BiedellSaguache P. O. and Ry. Del Norte 215.	
Black Hawk Gilpin Ry, 776.	The Bates-Hunter Mining Co., Denver, Colo., Mining Exchange Bidg. 8, V. Newell, prest; G. H. Batchelor, secy.; W. R. Rathyon, treas.; W. M. McMeechen, ingr. Cap. 8tk, 81,000,000. Gold. Shaft, free; steam.
49	Belmont Mining Co. Henry Kroger, prest.; Phillip Rolling, seey, and treas.; Win, Mitcheil, mgr. Cap. stock, \$25,000. Chemong, gold, silver, copper. Shaft, 850 tons, free; refractory; steam.
" " · ·	Fisk Mining & Milling Co., Demyer, Colo., Room 3 Bank Bidg. F. C. Came, prest.; D. E. Chase, seey., mgr. and supt.; L. H. Stockbridge, treas. Cap. stk, \$250,000. Fisk, gold, sliver. Shaft; refractory, free; steam.
	Free American Gold Mining Co., Denver, Colo., 355 Club Bldg. M. A. Downing, prest.; S. H. Cobb, seey, and treas.; M. L. Cox, mgr. and supt. Cap. 8tk, \$500,000. Free American, gold. Shaft; free; steam.
** .	Little Mande Gold Minling Co., Colorado Springs, Colo. L. Hall, prest, and mgr. C. P. Wikes, v. prest,: R. B. Taylor, seey.; F. H. Hall, treas. Cap. stk. \$125,000. Little Mande, gold. Tunnel; free; hand (developing).
0 - 0	James A. Perley & Son. Cap. \$50,000. Black Jack, silver, gold, lead, copper. Shaft, 75 tons; refractory; steam.
* n	Reed & Co. Cap. 8tk. \$200,000. Gregory-Bobtail, gold. Shaft, slope, 36,000 fons; steam; 125 stamps. J. W. Bostwick, supt.
	The Vosemite Hydraulic Mining Co., Denver, Colo., 818 Ernest & Crammer Bldg. W. B. Teters, prest, and mgr.; C. M. Berry, seey.; M. P. Dalton, treas. Cap. 81k, \$25,000. Vosemite, gold. Placer: hydraulic. W. B. Teters, supt.

Bonanza. Saguache Ry Villa Grove 215 J. B. Peterson, treas; R. W. Correll, mgr, and supt. Cap. sik, \$100,000. Sosthemis, Colorado and Excelsior, silver and copper. Shafts and tunnel, 600 tons; control of the control

Baldwin et al. Cap. \$100,000. Gold, silver, copper. Tunnel, 50 tons; hand. J. D. Baldwin, supt.

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
BonanzaSaguache (Continued.)	Bonanza Mining Co., Springfield, Ohio, Kelly Arcade. O. S. Kelly, prest., secy. and treas. Trwing Howberl, ngr. Cap. stk. \$200,000. Bonanza, gold, silver, lead. Shaft, 1,000 tons; refractory; horse. J. D. Baldwin, supt.
	J. K. Brewster, Pueblo, Colo. Eagle, silver, lead. Shaft; refractory; steam (developing).
\$6	Hon, Charles Foster, Washington, D. C. Payson, gold, silver, lead. Shaft, steam; refractory. R. W. Correll, supt.
** ***	D. J. McIntosh. Superior, silver, lead. Shaft; free; refractory; horse (developing).
	Samuel F. Rathvon, Denver, Colo. Exchequer, gold, silver, copper. Shaft; tunnel: refractory; hand. C. H. Leavitt, supt.
	L. C. Valentine. Occidental, silver, lead. Slope; horse (developing).  Eli E. Weddington. Saint Louis, gold, silver, lead. Shaft, 50 fons; refractory; hand.
	David G. Weenns, Baltimore, Md., 6 South st. Michigan, Boss Manmoth, Empress and Josephine, silver, lead, copper, Tunnel; shaft; refractory; hand (developing).
	ver, lead, copper, Tunnel; shaft; refractory; hand (developing).
Boulder Boulder Ry, 776.	Buckeye Mining & Milling Co. E. S. Teagarden, prest.; J. A. Teagarden, seey, and treas. Cap. stk. \$850- 000. Buckeye, gold. Shaft; free and refractory; horse (developing).
**	C. G. Buckingham. Magnolia, gold. Shaft; tunnel; refractory.
"	Rock Island Gold Mining Co., Rock Island, III., cor. Fifth ay, and Eighteenth st. Gustav Stengel, prest.; Wm. B. Ferguson, seev.; C. D. Gordon, Ireas.; II. C. Cleaveland, mgr. and supt. Cap. stk. \$1,000,000. Rock Island, gold. Shaft; tunnel; refractory; steam; 108 stamps.
56	Sugar Loat Mining & Milling Co., Denver, Colo., 1627 Champa st., P. O. Rox 2895. Frank P. Kellogz, prest.; William H. Person, seey, and treas.; Abraham Clawson, mgr. and supl. Cap. stk. 83a,000. R. B. Potter and Walker Lodes, gold. Shatis and tunnels, free; steam; 20 stamps (developing).
(8 miles).	H. C. Thompson, Eighteenth st. Rebecca, Tellurium, gold and silver. Shaft (developing); refractory; steam.
	G. R. Williamson, Yellow Pine Group, silver, Tunnel, 117 tons; refractory, G. A. Carlston, supt.
Box Elder Larimer Ry, Granite Canon, 26, 215.	Rawlings & Parkhurst, L. A. Rawlings, prest.; M. B. Rawlings, secy.; G. S. Parkhurst, treas. Peeler Lode, gold, silver, lead. Tunnel; free (developing).
BreckenridgeSummit Ry, 776.	Dunkin Mining Co., Leadville, Colo., 115 E. Eighteenth St. Woodward Emery, prest.; William Faxon jr., seey; James C. Elms, treas; Warren F. Page, nigr. Cap. stk. \$5,00,000. Gold, silver, lead. Shaft, timnel, £2,000 tons; refractory; steam. J. Q. Thomas, supil.
** **	Extension Mining & Milling Co., Denver, Colo., 505 Mining Exchange Bidg. W. R. Head, prest.; A. J. King, sevy.; Henry M. Fair, treas.; Geo. W. Fair, mgr. Cap. stk. \$500,000. Extension, gold. Tunnel, 4,000 tons: free; steam; 10 stamps. II. M. Fair, supt.
**	Glen Mohawk Mining Co., St. Lonis, Mo., 404 Market st. O. L. Garrison, prest.; J. D. Foster, seey, and treas. Cap. stk. \$250,000. May Flower, silver. Tunnel; refractory; water; steam; 20 stamps.
**	A. G. Hoopes, Orthodox Group, gold, silver, lead. Shaft, tunnel, so tons; refractory.
** **	The Jessie Gold Mining & Milling Co., Chicago, Ill., 201 Lake st. R. S. Reynolds, prest.; W. L. Gray, seey, and trens; W. L. Wilson, mgr., and supt. Cap. stk. \$400,000. Gold, silver, Tunnel; free (developing).
	Juniata Mining & Milling Co., Denver, Colo. Geo, A. Shapleigh, prest, and treas.; Geo, S. Hayes, seey, and mgr. Cap. stk. \$250,000. Juniata Group, gold, silver, lead, Shafts, drift; free: steam; mill (developing).
**	J. W. Kauffman, St. Louis, Mo., Laclede Bldg. Minnie, silver, lead. Shaft, tunnel, 3,600 tons; steam. Thos. McKenna, supt.
85	The tro Mining & Milling Co. H. H. Loomis, prest.; J. H. Thompson, seey, and treas. Cap. stk., \$500,000. Oro, Siam, Chief, Diamond Dick, gold, silver, lead. Shaft, tunnel; refractory; steam; mill. J. H. Thompson, supt.
44	The Ouray Mining & Milling Co. Thos. D. Price, prest, and treas.; Edward Price, seey. Cap. stk. \$500,000. Ouray Group, silver. Tunnel, shaft; refractory; steam; mill, concentrator. Jacob Conrad, supt.
	Revere Mining Co., St. Johnsbury, Vt. A. T. Speneer, prest.; F. W. Calden, seey.; A. C. Allen, treas.; Thos. McKema, mgr. Cap. stk, \$500,000. Revere, gold, silver, lead. Shaft, tunnel, \$6,000 tons; steam (developing).
**	Tecumseh Mining & Milling Co., Denver, Colo., 706 Ernest & Cranmer Block. Geo, A. Shapleigh, prest, and treas; Geo, S. Hayes, seey., mgr. and supt. Cap. stk. \$250,060. Tecumseh, gold, silver, lead. Tunnel (developing).
80 Bb	Treasure Mining & Milling Co., Pittsburg, Pa., 607 Furgerson Bldg, James G. Corcoran, prest, W. E. Geberson, Seey;; Andrew Johnson, treas.; C. K. Ohara, mgr. Cap. stk, \$50,000. Treasure, silver, Tunnel, shaft, 789 tons; free; steam. Carl Johnson, supl.
Buena Vista	E. Block & Co. Martha Bonney, Lottie, gold, silver, copper, lead. Tunnel; refractory; hand (developing), 1. H, Wenner, supt.
	Edward T. Bradford & Geo, H. Parsons, Colorado Springs, Colo., Pike's Peak av. Salvator and Princeton, silver and lead. Shaft and tunnel; refractory; horse (developing). Charles M. Sharpe, supt.
44 14	Cora Belle Mining Co. Cora Belle, gold, silver, lead. Tunnel; refractory; hand; mill. Asa Fox, supt.
	The Dandy Silver Mining Co. E. F. Williams, prest.; R. II. Clifford, secy.; C. M. Sharpe, mgr. and supt. Cap. stk. \$500,000. Dandy, Encyclopedia, silver. Tunnel; refractory; hand (developing).
56	The Fredonia Consolidated Mining Co., R. S. Appel, prest.; D. R. Ney, seev, and treas.; R. T. Schlafpig, mgr, and supt. Cap. stk. \$400,000. Fredonia, lead, gold, silver. Tunnel, shaft; free; hand (developing).
6	Ph. Groves. Atlantic and Longfellow, gold, silver, lead, copper, Tunnel; refractory; hand. Emerson Gee, supt.
44	The Highland Mining Co. C. M. Sharpe, prest.; R. T. Schlatpig, seey. Cap, stk. \$900,000. Highland, Grambian, silver, lead. Tunnel; refractory; hand. C. M. Sharpe, supt.

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Ore. Kind of Mine, Annual Output in Tons of 2,00 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.

COENTY

AND Town Buena Vista . C Chaffee The Hortense Mining Co. Hortense, silver. Tunnel, shaft; refractory; hand. Eugene F. Teats, supt.

C. F. Landes & Co. Mt. Carmel, gold, silver, lead, copper. Tunnel, shaft; refractory; hand (developing). Con. F. Landes, supt. C. A. Morse, Lizzie M., Mohawk, gold, silver. Tunnel; refractory; hand (developing).

The Mount Princeton Tunnel Co., B. R. Dean, prest.; J. Quincy Hunsicker, seey and treas.; C. M. Sharpe, ngr. and supt. Cap. stk. \$100,000. Wild Irish Boy, silver, lead. Tunnel; refractory; hand Sharpe, mgr. and supt. (developing).

The Salvator Mining Co. Edw. T. Bradford, mgr. Salvator, silver, lead. Tunnel, shaft; refractory; hand, C. M. Sharpe, supt. . Boulder

Ry. Boulder, 776. Carnero

Caribon

The Poorman Silver Mines of Colorado, Ltd., Glasgow, Scotland, 163 W. George et. Leonard Gow, prest.; R. A. Murray, seey. Cap. stk. \$550,000. Poorman Group, silver. Shaff, deep, 1,800 fons; refractory, stemn; mill. Nell D. McKenzle, supp.

P. O. and Ry. Del Norte, 215. Carson Hinsdale

"Sagnache Grand View Mining, Milling & Development Co., Del Norte, Colo. W. H. Cochran, prest.; Charles W. Y. Del Thomas, seev., John H. Shaw, treas.; Isaac A. McLeod, ngg, and supt. Cap., stk. \$500,000. Grand View Lode, Monitain View Lode, gold, silver. Timnel, free developing. The Carson Mining Co., Denver, Colo., 203 Mining Exchange Bidg. H. S. Hubbard, prest.; W. Coleman, secy.; W. B. Dungan, treas., J. S. Chapman, mgr. and supt. Cap. 8tk, \$1,000,000. Big Indian, gold, 8flyer. Shaft, tunnel, hand, stem.

Ry, Laike City, 215.

Cresco Mining Co., Lake City, Colo, T. H. Wigglesworth, prest., John T. Heard, secy.; A. Snedaker, mgr. Cresco, gold, silver. Tunnel; refractory. G. W. Crowe, supt.

Geo, 111 Mining, Milling & Smelting Co., St. Louis, Mo. A. T. Perry, prest.; A. A. Hunziker, seey.; J. N. Hull, treas.; G. W. Cory, mgr. and supt. Cap. stk. \$60,000. Geo. 111, Anna, Hattie, sliver. Tun-N. Hull, treas.; G. nel, 50 tons; hand.

Glipin

Argyle Gold Mining Co., Chicago, Ill., 440 Chamber of Commerce. Percy C. Hamilton, prest, and treas.; Wm. Phelps, sees.; Henry P. Lowe, ngr., and supt. Cap. 848, 81,000,000. Argyle, gold. Shaft, 12,000 tons; (free, steam; 50 stamps.

Central City

Fisk Mining & Milling Co. F. C. Carne, prest.; D. E. Chase, secy, and mgr., L. H. Stockbridge, treas. Cap. 8tk, \$250,000. Fisk, gold. Shaft, refractory; steam.

Gettysburg Mining Co., Denver, Colo. W. A. Mereau, prest., N. O. Vasburgh, seey, and treas.; J. B. Hafer, mgr. and supt. Cap. 8tk, \$300,000. Gettysburg, gold, 8llver. Shaft, 35,000 tons; free; steam. The Gilpin-Franklin Gold Mining Co., Denver, Colo., Ernest & Crammer Block. John P. Olymplus, prest., Wm. A. Moore, seey. Max Baer, treasy, A. J. Smith, mgr. and supt. Cap. stk. \$300,000. Franklin, Lols, Clyde, gold. Shift; free; lonese,

The Goleonda Mining & Milling Co., Wm. J. Thomas, prest.; C. E. Street, seey., treas, and mgr. C. sik, Sovicoo. Lattle Lalla, Little Mary, gold. Tunnel; free: steam; 10 stamps developings. C. Street, supt. Gold Rock Mining & Milling Co., Denver, Colo., Boom's Tabor Block. John Demson, prest.; G. Krouse, seey, and treas. Cap. 8tk, \$500,000. Springdale, gold, silver, copper, Shaft; refractory; steam. J.

seey, and treas. Ben Lewis, supt. The Gregory Consolidated Mining Co., Uenver, Colo., 566 Mining Exchange Bidg. Joseph B. Hafer, prest, and ngg; C. L. Schmidt, seey.; Lonis Wagner, treas. Cap. 8th \$20,000. Gregory Second. gold. silver. Tunnel, shaft, 50,000 fors; refractory, horse, mill. Joseph B. Hafer, supt.

Geo, W. Hill. Banta, silver, gold. Shaft, drift; refractory, steam.

The Jupiter-Belmont Mining Co., Denver, Colo., 220 Seventeenth st. A. A. Bowhay, prest.; David Keith, v.-prest.; Chus, A. Johnson, seey.; A. P. Fennerty, trens.; Chus, M. Shaw, mgr. and supt. Cap. stk. pd. up \$50,000. Jupiter, St. Clair and Belmont, gold. Shaft; free; steam;

Geo, W. Mable. National, gold, silver. Shaft, 6,000 tons; free; steam.

New California Co., Ltd., London, Eng., Bloomfield Rouse, London Wall. H. T. Walker, prest., W. H. Rowe, seey, and treas; Affred Rickard, ngr. and supt. Cap. 8tk, \$800,000. California, gold, silver. Slaft, 19,000 (nns, free, steam); 5 stamps.

The Pewabie Mining Co., Council Bluffs, Iowa. Lewis Hammer, prest.; Hon, Geo, F. Wright, seey, and treas.; John H. Kemp, mgr. and supt. Pewabie, gold, silver. Shaft, refractory; Steam. The Saratoga & Cyclops Gold and Silver Consolidated Minling Co. Joseph H. Berry, prest,: W. G. Smith, seey.; John Best, treas, mgr. and supt. Cap. 8tk, \$1,50,000. Saratoga, Cyclops, gold, Silver. Shaft, S.coottons, terractory; stem.

Spur Dalsy Mining Co., Denver, Colo., 304 Mack Block. L. W. Tatum, prest., Irvin J. Carr, seey, and treas; V. A. Maedonald, ingr. Cap. 8tk, 8300,000. Spur, Dalsy, Two Sisters, Monitor, Little Chicago, gold, 8flver, lead, copper. Shaft, 5a tons; free; refractory, steam, horse. Daniel Minay, supt.

The Sutton Mining & Milling Co., Denver, Colo., Mining Evehange Bidg. L. W. Niehols, prest., R. W. Cokell, sery.; W. B. Roof, trens, and nigr., Cap. 848, 850,000. Alva Adams, Notaway, Magpie, gold, silver. Shaft, drift; refractory, steam (developing). John B. Sutton, Sutton.

Climax Ry. Alicante 776,

Lake G. C. Wortman. John Reed. gold, silver, lead. Shaft, 3,000 tons; refractory; electricity,

Park Lelon Peabody Peabody gold Placer: hand

Peabody & Foot. City of Hamilton, gold. Tunnel, 400 tons; free; steam; 40 stamps. Henry Foot, supt. J. M. Link, Henry Foot, mgr., Eureka, Ne Plus Ultra, Kentucky, gold. 1,200 tons; free; steam; 10 stamps. Oliver & Martin. Mineral Ranch, gold. Tunnel, slope, 200 tons; free; water; 10 stamps.

Reed & Jarvis. Lena, gold, silver. Tunnel; free; hand; to stamps. D. R. Jarvis, supt.

Copper Rock Ry. 776.

Boulder U. G. Buckingham, Boulder, Colo. McDermott, Occidental, gold. Shaft, tunnel; free (developing).

LOCATION OF RAILWAYS, WATE AND SHIPPING	R ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Ottpot in Tons of 2009 Downs, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superrineadent,
TOWN AND	COUNTY.	
Copper Rock	Boulder	Copper Rock Gold Mining Co., Denver, Colo., cor. Seventeenth and Champa sts, W. W. Booth, prest.; Dr. F. H. Lay, secy.; J. K. Carlston, ngr. and supt. Cap. stk. \$100,000. Gold. Tunnel; free: 15 stamps.
"	"	Denver & Copper Rock Gold Mining Co., Denver, Colo., 1325 Seventeenth st., Wm. K. Burchinell, prest.; Dr. F. H. Lay, secy.; Albert Lewin, treas.; A. B. Gibson, ingr. and supt. Cap. stk. \$1,000,000. Lucky, Locust, Lucy and others, gold. Shafts and Innuels; free (leveloping).
**	11	Gold Dust Mining & Milling Co., Denver Colo., 617 Mining Exchange Bldg. L. D. Longhi, prest, and treas.; R. F. Copes, secy.; W. J. Hegel, mgr. Cap. 8tk. \$500,000. Mand S., Gold Dust. Medicine Man, gold. Shaft, tunnel; free; 20 stamps. W. J. Hegel, supt.
**	**	Orphan Boy Mining & Milling Co., Denver, Colo., 613 Mining Exchange Bldg. Wm. Wise, prest, and treas, N. C. Merrilli, secy. and mgr. Cap. 8tk, \$1,000,000, Orphan Boy, Kaiser Wilhelm, Emperor, gold. Tunnel, 2,500 tons; free; steam; 15 stamps. Chas, Davis, supt.
**	*1	Orphan Boy Extension Mining & Milling Co., Denver, Colo. Hon, J. C. Helm, prest.; N. C. Merrill, secy, and treas.; C. Davis, mgr. Cap, stk. \$1,000,000. Last Lode, Negotiable, gold. Shaft; free; steam.
* .	<b>"</b>	Queen Bess Gold Mining Co., benver, Colo., 59 Mining Exchange Bldg. A. C. Schlesinger, prest; D. J. Ezekiel, seey, and mgr.; H. W. Kirchner, treas. Cap. stk. \$100,000. Sucker Boy, gold. Shaft; free; hand developing). John Fuller, supt.
Creede Ry, 215.	Saguache	Amethyst Mining Co. David H. Moffat, prest.: W. S. Cheesman, seey, and treas.; L. E. Campbell, mgr. Cap. stk. 85,000,000. Amethyst, silver, gold, lead. Slope, 22,000 tons; refractory; steam. Harry Allenby, sapt.
**	**	The Antlers Mining &/Milling Co. E. Barnett, prest,; O. L. Godfrey, secy, and treas.; O. D. Davis, mgr. Cap. stk. \$1,000,000. Twenty claims, silver. Shaft; horse (developing). Mr. Crawford, supt.
**	**	Coin Silver Mining Co. O. P. Poole, prest, and mgr.; W. H. Spurgeon, seey.; H. E. Johnson, treas. Cap. stk. \$500,000. White, Equitable, silver, lead. Shaft; steam (developing).
**	**	The Creede & Cripple Creek Land & Mining Co. Denver, Colo., 1688 Curtis Bidg., Room 16. William Warren, prest; S. J. Shirley, seey, and treas; Alonzo Abbott, mgr. Cap. 8tk, 8250,000. Cripple, Frego, Abbott's Dream and others, gold, silver. Shaft; free; hand (developing). Matthew A. Rowen, supt.
**	**	Creede Mining & Milling Co.; Denver, Colo., 310 Boston Bldg. R. W. Woodbury, prest.; F. A. Metcalf, seey and treas.; D. J. Hutchison, mgr. and supt. Cap. 8tk. \$100,000. McGinty, silver. Tunnet (developing).
-11	**	The Crown Point Mining & Milling Co. Howard C. Chapin, prest, and mgr.; E. I. Howard, seey, and treus, Cap. xlf, \$1,000,000. Crown Point, Kentucky Boy and others, silver. Shaft; free; horse (developing), Howard C, Chapin, supt.
o .	**	Del Monte Mining & Milling Co., Colorado Springs, Colo. Hayes, treas. Cap. stk, \$5,000,000. Del Monte, silver. Shaft (developing).
	**	Four Hundred Acre Consolidated Diamond Drill Mining Co., Denver, Colo. F. P. Ernest, prest.: Howard C. Chapin, seey.; George R. Swallow, treas.; A. F. Hazeltine, mgr. and supt. Cap.stk. \$3,000,000. Fifty claims, silver. Free; steam developing).
		Grand Pacific Mining Co. E. W. Hurlbut, prest.; L. D. Mather, secy.; A. H. Raynolds, treas.; J. B. Warner, mgr. and supt. Cap. stk. \$1,000,000. Grand Pacific, silver. Tunnel (developing).
	**	The Holy Moses Mining Co. David H. Moffatt, prest.; L. E. Campbell, mgr. Holy Moses, Ethel, gold, silver, lead. Tunnel, shaft, 6,000 tons; free; horse. Harry Allenby, supt.
19	**	King Solomon Mining & Milling Co., Denver, Colo., 207, 208 and 220 Boston Bldg. N. C. Creede, prest.; Edwin I, Rogers, Secy., Geo. W. Robinson, treas.; Theo, Craig, mgr. and supt. Cap. stk. \$2,000,000. King Solomon, Eelat, silver, gold. Shaft, tunnel; refractory; hand.
	**	Little Maid Mining & Milling Co., Denver Colo., 207, 208, and 209 Boston Bldg. Wm. G. Elder, prest,: J. R. Sanville, secy.; N. J. Miller, treas. Cap. stk. \$2.00.0000. Little Maid, Silver Planne, silver. Shaft, tunnel; refractory; hand. Wm. F. Hogan, mgr. and supt.
•	**	Mammoth Mining & Smelting Co., Pheblo, Colo., Central Block. E. H. Martin, prest.; A. L. Murry, seey.: C. F. Roy, treas.; E. J. Wilcox, ingr. and supt. Cap. stk. \$2,500,000. Fourteen claims, silver, gold. Shaft, tunnel, refractory, free; steam, hand.
	**	Manmoth Mountain Deep Mining & Tannet Co., Denver, Colo., Mining Exchange Bldg. 11, A. Ferguson, prest.; H. E. Wood, seey, W. S. Nichols, treas.; F. G. Peck, ngg, and supt. Cap. stk, \$1,250,000. Little Vernie, Black Girl, Baryta, gold, silver. Tunnel, shaft; free.
**	**	Nelson Tunnel & Mining Co. A. W. Brownell, prest,; J. P. Wallace, seey.; B. F. Kelly, treas. Cap. stk. pd. \$1,000,000. Triangle Lode, silver. Tunnel; refractory; water (developing). Ed. Wagner, supt.
**	**	Pueblo & Creede Mining & Milling Co., Pueblo, Colo., Union av. C. H. Watkins, prest.; H. T. Wilson, seey, and trens; Thos, R. Henalbey, ugr. and supt. Cap. stk, \$500,000. Tenay Foundation, silver. Shaft; refractory; hand developing).
	**	Silver King Mammoth Mining Co., Denver, Colo., 626 Mining Exchange Bldg. Wm. H. Vankee, prest,; W. H. Combs, seey, and treats.; Colin Timmons, nigr, and supt. Cap. stk. \$1,000,000. Silver King. Monitor and Merrimae, silver. Slart: free; steam developing.
**	"	U. S. Paymaster Mining Co., Denver, Colo., 55 Bareley Block. Evan Morton, prest.; Geo. W. Trommlitz, seey, and mgr. E. C. Humphrey, treas. Cup. 8tf, \$330,000. U. S., Colorado Boy, Paymaster, Johnny Bulf, 8ilver. Tunnel; refractory; horse (developing). E. F. Gordon, supt.
Crested Butte Ry, 215.	Gunnison	Camberland Consolidated Mining & Milling Co., Aspen, Colo. Joseph Reese, prest,; E. C. Stinson, secy.; H. T. Tissington, treas; J. M. Vincent, mgr. Cap. 8tk, \$1,000,000. Cumberland, gold, silver. Tunnel; free; compressed air. C. R. McGaltren, supr.
	. "	The Diamond (R) Mining Co., Pueblo, Colo., 212 S. Union av. J. J. Langdon, prest.; John S. Stewart, seey.; Julius Fish, treas. Cap. 8tk, \$500,000. Diamond (R) and Honest Old Grover, silver. Timnel: refractory; hand (developing). C. F. Mel-Laughlin, supt.
(Investore)	Masaraaha	Kunkat Daw Danner and Shorts from hand danskerings

Crestone ... Sagnache Kunkel Bros, Banner, gold. Shaft; free; hand (developing), Ry, Moffat 215 (18 m.).

" Von Moltke Mining Co., Hugo Henkaufer, mgr. and snpt. Von Moltke, gold, silver. Tunnel, shaft, 50 tons; refractory; hand developing).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.
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RAILWAY	fion of 8, Wate hipping	R ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Obe, Kind of Mine, Annual Output in Tons of 2,00 Pounds, Kind
Town	AND	COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Cripple C Ry. H (18)	'reek,. layden miles),	. El Paso Divide 26	Alamo Mining Co., Colorado Springs, Colo., cor. Pike's Peak av. and Tejon st. Hon. F. E. Robinson, prest.; E. W. McNeal, seey.; H. E. Bassett, treas.; Lloyd Adamson, mgr. Cap. stk., 880,000. Four claims, gold. Shaft, tunnel; free; band. L. Adamson, supt.
		**	The Alverla Gold Mining Co., Denver, Colo., cor. Seventeenth and Curtis 81s. Edmund L. Scholtz, prest.; H. P. Ellis, seev.; Thomas Keely, treas; H. C. Lavrence, mgr. Cap. 8tk, \$300,000. Alverta, gold, Tunnel, shaft; free; land, H. C. Lavrence, supt.
**		**	Amazon Mining & Milling Co., Denver, Colo., Room 802 Boston Bidg. O. Metcalf, prest.: W. F. Reed, seey, and treas; James 3. Ducey, mgr. Cap. 818, 890,0000. Reform, Confidence and 5 other claims, gold. Shaft, tunnel, 9,500 fours; free and refractory; steam; to stamps. Charles Steele, supt.
**		-14	American Flag Mining & Tunnel Co., L. H. Gowdey, prest.; W. E. Meek, seey.; J. R. McKinney, treas., John Horgan, mgr., Cap. stk. \$50,000. Gold., Tunnel; free; hand., John Horgan, supt.
		**	Anaconda Gold Mining Co., Denver, Colo., 758 Wynkoop St. (D. H. Moffatt, prest., C. T. Harklson, seey.; First National Bank of Denver, treas; Ebon Smith, mgr. and supl. (Ap. stk. \$5,000,000. Anaconda, to claims, gold. Tunnels and shafts; steam.
		+4	Anglo-American Prospecting & Developing Co., Box 386. W. R. Vacher, prest, and mgr., J. C. Steele, seey.; H. H. Vacher, treas. Cap. stk. \$250,000. Fifteen claims, gold (developing).
			Badger Boy & Ivanhoe Minling Co., Colorado Springs, Colo. T. A. McMorris, prest.; W. C. Frost, seey, and tress; Reuben Beney, mgr. Cap. stk, 8600,000. Badger Boy and Ivanhoe, gold. Shaft and tun nel; free developing.
		**	Bull Mountain Gold Mining Co., Colorado Springs, Colo., Gazette Building, Count James Pourtales, prest., Thos. C. Parrish, seey, and treas. Cap. stk, \$1,000,000. Twenty-two claims, gold and silver. Shaft, tunnels, 20 tons; refractory, free. Richard Lloyd, supt.
		**	B. V. Gold Mining Co., Colorado Springs, Colo., Gazette Bullding. Count James Pourtales, prest.; Thos. C. Parrish, seey, and treas. Cap. sik. \$70,000. Buena Vista, gold and silver. Shaft, tunnel, sio tons; refractory, free. P. T. McDonald, spit.
**			Champa Minding & Milling Co., Denver, Colo., 404 California Bidg. C. N. Guyer, prest., Ed. P. Pitkin, seey., S. S. Smythe, treas: A. H. Smythe, mgr. and supt. Cap. 8tk, \$1,000,000. Champa, gold. Shaff and tunnels; free: fo stamps (developing).
**			Chat Mining & Milling Co., Colorado Springs, Colo. J. A. Himebaugh, prest.; Geo, Lindley, secy.; D. Herron, treas, H. Chafflon, mgr., and supt. Cap., stk. \$500,000. Etta Chat, Hubert Chat, and 3 others, gold. Shaff, placer; tree; steam, 7 ottamps.
**			Clifton Minling & Milling Co.; Colorado Springs, Colo., 125 and 127 S, Tejon st. T. M. Dolan, Clifton, Kam., prest.; A. W. Maxwell, seey., W. D. Harmon, Clifton, Kam., treus., Geo. O. Nevlus, mgr. and supt. Cap. 848, 890,000. Ella H., Chra D., gold. Shift, free, steam.
			C. O. D. Gold Mining Co., Colorado Springs, Colo. E. M. Stedman, prest., Clarence Edsall, seey, and treas., Class. L. Tutt., ingr., and supt., Cap. 8tk, 8500,000. C. O. D., My Cholce and Berkley, gold and sliver. Shatt: refractory, free developing.
			Colfax Mining Co., Colorado City, Colo. J. R. Watt, prest., A. R. Huff, seey., Fred. Hilliker, treas. Cap. stk. \$1,000,000. Mammoth, Moose, Buflalo, Caribon and others, gold, silver. Shaft.
		**	Compact Minling & Milling Co. L. R. Thompson, prest.: H. R. Warren, seey, and mgr., J. H. Parker, trens. Cap. six, 8750,000. Compact, gold. Shaft and tunnel: free; horse developing). Mark Thomas, spit.
			Conservative Mining & Milling Co., Colorado City, Colo. R. S. Brisene, prest.; M. J. Myers Smith, seey.; Chas. A. Crane, treas.; M. O. Evans, mgr. and supt. Cap. 8tk, \$250,000. Gold. Shaft, tunnel; refractory, tree.
			Coronado Gold Mining Co., Pucblo, Colo., Central Block. Paul Wilson, prest, Chas. S. Sauerland, seev.; John H. Olmes, treas.; N. E. Gayot, mgr, and supt. Cap. stk. \$1,500,000. Napoleon, Amy H., Kittle M., and others, gold. Open, 15,000 Ions; free; electricity; 100 stamps.
			Cripple Creek Syndicate Mining & Milling Co., Denver, Colo., 1638 Lawrence st., John L. Russell, prest.; U. S., Hooper, sery, and treas; A. K., Hoffman, mgr. and supt. Cap. stk. \$200,000. Cripple Creek Syndicate, gold. Slaft, 175 tons; free, steam (developing).
			The Cripple District Mining Co., Denver, Colo., 1624 Curtis st. J. C. Rice, prest.; Chas. E. Liebold, seey, and treas.; S. O. Trescott, mgr. and supt. Cap. stk. \$252,000. Ten clalins, gold. Tunnel; shaft (developing).
			Cyrstal Mining Co., 130 Bennet av. W. H. Voung, prest., treas., mgr. and supt. Thos. Donnell, secy. Cap. stk. \$650,000. Pauther, Storm and Monte Christo, gold. Shafts: free, hand edeveloping).
**		**	The Denver & Cripple Creek Mining Co., Denver, Colo., 913 Seventh st. H. J. Kruse, prest.; E. A. Smith, seey.; E. H. Mason, treas; J. A. Riggs, mgr. Cap. 84k, \$90,000. E. H. Mason, America, City of Paris and others, gold (developing).
"		**	The Double Eagle Mining Co., Colorado Springs, Colo., 21 Bank Bldg. Henry D. Gortner, prest.; John J., O'Nell, vprest.; Bert W., Osborn, seey, and trens.; J., F. Topling, mgr. and supt. Cup. stk. \$1,000,000. Double Eagle, Crystal Reef. Nara Ellien, gold. Shaft; free; hand.
		**	The El Dorado Gold Mining & Milling Co., Colorado Springs, Colo. J. F. Seldomridge, prest.; J. F. Maybury, seey, and treas.; E. M. La Vergne, agr. Cap., si&, \$1,000,000. El Dorado, Sangre and Cripple Creek, gold. Shaft, tunnel, placer; refractory and free; water.
		**	Elkton Mining & Milling Co., Colorado Springs, Colo., 1635, South Tejon st. Geo, Bernard, 9rest.; Samuel Bernard, seey., Van E. Rouse, treas. Cap., stk., \$200,000. Elkton, Kentucky, Billy and Walter, gold and silver. Shaft and tunnel; free. Van E. Rouse, supt.
			Free Coinage Gold Mining Co., Colorado Springs, Colo. S. I. Altman, prest, and mgr.; M. M. Baldwin, seey.; James H. Baldwin, treas. Cap. 548, \$1,000,000. Rising Sun, Wilson and others, gold. Shaft, drift, free, refractory, hand. Ernest Mass, supt.

Gold & Globe Hill Mining Co., Colorado Springs, Colo., 164 Pike's Peak av. A. Anderson, prest.; R. W. Anderson, seey.; Win, W. Bassell, freas. Cap., stk, \$500,000. Gold, Globe and Iron King, gold. Tunnel, shaft, \$3,000 tons, hand. J. R. McKinnie, suppt. The Gold King Mining Co., Colorado Springs, Colo. E. A. Colburn, prest., C. H. Dudley, seey, and treas, Cap. 8tk, \$1,00,000. El Paso, gold. Shaft and tunnel, 3,599 tons; refractory and free; hand; 15 stamps, Wn. Lemox, supt.

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SEIPPING POINT.

NAME OF MINE, KIND OF ORE. KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Cripple Creek.... El Paso Gold Standard Mining & Milling Co. L. D. Rodebush, prest.; Ely G. Bettis, secy. Cap. stk, \$1,200,000. (Continued.) Gold. Tunnel, shaft: steam, hand (developing). Golden Eagle Mining & Milling Co., Colorado Springs, Colo. Daniel Gregg, prest.; W. C. Farrell, seey.; Goo, E. Foster, Iteas., Cap. stk. \$1,000,000. Comstock, Great Western and 7 other claims, gold. Placer, tunnel and shaft; free; steam. Golden Gate Prospecting, Minling & Milling Co. Emleu Lewis, prest, and mgr.; Peter McCrea, seey, and treas. Cap. stk. \$1,500,000. Fifteen fodes and placer claims, gold, silver. Shaft, tunnel, placer; refractory, free; waters, steam and electricity. Dr. E. Lewis, supt. The Granite Hill Mining & Milling Co., Colorado Springs, Colo. L. H. Gowdy, prest.; C. W. Older, seey.; A. S. Andrew, treas.; W. H. Gowdy, mgr. Cap. stk. \$1,250,000. Granite Hill and Chicago Girl developing). Ironclad Mining & Milling Co. Cap. stk. \$1,000,000. Gold. Tunnel, shaft; free. John S. Bogg, supt. Jack Pot Mining Co., Colorado Springs, Colo., 112 E, Pike's Peak av. E, J. Hadfield, prest.; John S, Lentz, seey.; R, H. Graham, trens.; Lew Jackson, ingr., and supt. Cap., 8tk, 81,250,000. Jack Pot, Iron Master, Providence and Mary Wynn, gold. Tunnel, Shaft; free; land. The Jeff Davis Mining Co., Colorado Springs, Colo. C. M. Rice, prest.; C. B. Wider, secy.; B. C. Hubbell, treas. Cap. stk. \$1,000,000. Jeff Davis and 6 other claims, gold. Shaft; refractory. J. W. Wells, Jefferson Mining Co. W. E. Craig, prest.; Geo. B. Mechem, seey.; Geo. Mayhew, treas.; Sanmel Bishop, mgr. and supt. Cap. stk. \$1,100,000. Game Cock, Jay Hawker, Hallie, gold. Shaft, tunnel, 60,000 tons; free; electricity: 20 stamps. The Juno Mining & Milling Co., Denver, Colo., 2449 Champa st. Emile Bern, prest.; Gordon H. Rankine, secy.; W. S. Winslow, treas.; Eli Punshon, mgr. lowand, gold. Tunnel. Le Clair Mining Co. Frank F. Castello, prest.; P. J. Ryan, seey.; H. L. Houghton, treas.; T. F. Houghton, mgr. and supt. Cap. 8fk. \$1,000,000. South Park, Le Clair and 2 others, gold and silver. Tunnel, shaft; free, refractory, hand developing. Legal Tender Mining and Milling Co. L. D. Rodebush, prest.; Ely G. Bettis, secy. Cap. stk, \$1,200,000, Gold. Tunnel, shaft; steam, hand (developing). The Little Don Mining & Tunnel Co., P. O. Box 5. Geo. H. Hobson, prest.; G. B. Portis, seey.; Geo. C. Harper, treas., Pueblo; John Downen, mgr. and supt. Cap. stk. \$1,000,000. Gold. Tunnel, shaft;

Lillie Mining & Milling Co., Denver, Colo., 1621 Stout st. 1, J. Maccabe, prest. and treas.; M. R. Hill, seey.; John H. Maccabe, mgr. Cap. stk, \$250,000. Gold. Shaft; hand (developing). I. Chidde, supt.

Lone Star Mining Co. John Hulburt, prest.; F. T. Osgood, seey.; F. T. Castello, treas.; E. B. Smettle, mgr. Cap. slk, \$1,000,000. Lone Star, gold. Free (developing).

Lone Star Mining and Milling Co. L. D. Rodebush, prest.; Ely G. Bettis, secy. Cap. stk. \$1,200,000. Gold. Tunnel, shaft; steam, hand (developing).

The Mertie D. Gold Mining Co., 505 Carr av. E. C. King, prest, and mgr.; R. G. Mullin, seey.; Chas. H. Adams, treas. Cap. stk. \$1,000,000. Mente D., Jim Blaine, Archie, Winona, Lena M. and Pomme de Terre, gold. Shaft, tunnel; free; land. E. C. King, supt.

The Mountain Chief Gold Mining & Milling Co. John K. Vanatta, prest.; John M. Buckley, seey.; C. H. McMasters, treas; F. M. Clancy, ngr. Cap. 8tk, 81,000,000. Mountain Chief, gold. Sharf, tunnel, 9,000 tons; free, horse. W. R. McEltry, supt.

Mutual Mining & Milling Co., Colorado Springs, Colo. E. F. Titus, prest.; C. S. Bailey, seey.; W. H. Gandy, treus, and mgr. Cap. stk, x5xa/00. New Discovery, Cripple Creek, Mineral Hill, Mollie Gibson and Independence, gold. Shaft, tunnel; free; horse, hand, W. H. Gandy, supt.

National Belle Mining, Milling & Development Co., Fremont, Colo. James M. Parker, prest.; 1, L. Stebbins, sery, and treas.; Samuel Strong, mgr. Cap. stk, \$500,000. Gold. Shaft, tunnel; free.

Orphan Belle Mining & Milling Co., Colorado Springs, Colo., 112 Pike's Peak av. J. H. Gardner, prest.; J. K. Vanatta, secy.; J. E. Hunter, treas; R. J. Coleman, mgr, and supt. Cup. stk, \$500,000. Orphan Belle, gold, silver and copper. Shaft and slope; refractory; horse (developing).

People's Mining & Milling Co., Denyer, Colo. M. J. Lawrence, prest.; R. G. Rockwell, seey.; F. L. Rolling, treas.; Wm. Hodgson, mgr. Cap. stk. \$500,000. People's, gold. Shaft; free developing). L. M. Bogart, sup.

Pharmacist Mining Co., Colorado Springs, Colo., P. O. Box 376. J. K. Miller, prest.; A. D. Jones, secy.; J. W. Miller, treas. Cap. 8tk. \$1,200,000. Pharmacist, gold. Shaft, 6,000 tons; horse. A. D. Jones, supt.

Phil Sheridan Mining & Milling Co., Pueblo, Colo., 391 Central Block, W. O. Campbell, prest; Jas. A. Brown, seey, and treas; J. C. Magner, mgr, and supt. Cap. stk, \$900,000. Phil Sheridan, gold and silver. Shafts and tumels; retractory; hand (developing).

Pike's Peak Placer Mining & Milling Co. P. Johnson, prest,; Samuel Hershberger, v.-prest.; A. W. Faurot, seey.; Al. Sorders, treas.; Burt Pottinger, mgr. Cap. 8tk, \$1,000,000. Pike's Peak, gold. Placer; free; steam and water. J. T. May, sup.

Plain View Mining & Milling Co., Denver, Colo., 1630 Arapahoe st. Chas. E. Page, prest; Chas. H. Petrie, seey.; John McLeod, treas. Cap. stk, 8300,000. Gold and silver. Shaft; free developing). A. Vanderhoef, supt.

Pluto Mining Co., Colorado Springs, Colo. J. K. Müller, prest, and treas.; A. D. Jones, seey.; Harry Ferguson, nigr. Cap. stk. \$50,000. Alva Nos. 1 and 2 and Lola, gold. Placer, shaft, tunnel; refractory; horse. Theo, Thorn. supt.

Plymouth Rock Mining Co., Fremont, Colo. E. C. Hight, prest.; H. L. Shepherd, seey.; J. M. Parker, treas.; V. B. Krewson, mgr. and supt. Cap. sik, \$1,00,000. Plymouth Rock Nos. 1 and 2, World's Pair and others, gold and silver. Shaff; refractory; horse.

Pride of Cripple Creek Mining Co., Denver, Colo., 801 Seventeenth 8t. Milo A. Smith, prest.; Arthur H. Cawley, seeg.; R. W. Woodbury, treas. Cap. stk. \$1,000,000. Pride of Cripple Creek and others, gold. Shaff (developing).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.		R ROUTES	Name of Company or Individual, Location of Peincipal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore - Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Town	AND	COUNTY.	
Cripple (	Preek Pontinu	El Paso	Pueblo Rell Mining & Milling Co., Pueblo, Colo. J. J. Lansing, prest.: D. Mitchell, seey.; T. A. Sloane treas. Cap. stk, \$500,000. Olive, Pearl, Lena and Edisburg, gold. Shaft and tunnel; free.
		**	Shirsta Minling, Milling & Prospecting Co., Colorado Springs, Colo., 5°, Tejon st. W. W. Williamson prest; J. W. Rice, seey.; D. Milchell, treas; A. E. Moyn, mgr, and supt. Cap. 84, 252,000, Job. Jefferson, Lady Florence and 5 other claims, gold. Shaft, tunnel; refractory, free; hand, electricity, 5°s stamps.
		**	R. M. Snavly & S. M. Rugg, Denver, Colo. R. M. Snavly, prest, and treas.; S. M. Rugg, seey. Cap. stk \$500,000. Gertrude H., Gold Cord and H. P., gold, silver. Shaft; free; hand; 10 stamps. W. T. Camp bell, squt.
••		••	Spring Creek Mining Co., Colorado Springs, Colo., 20 E. Pike's Peak av. Franc O. Woods, prest., W. H. Baeon, seey, and treas. Cap. 8tk, 820,000; Indv. cap., \$225,000. Eight claims, gold, silver. Tunne Mr. Steaf, sapt
			The Standard Mining & Land Co., Colorado Springs, Colo., Rooms I and 2 P. O. Block. L. E. Dwinel prest.; W. E. McLain, seey.; J. A. Voorhees, treas., G. A. Entery, ngr, and supt. Cap. stk, \$300,00   Door Key, McCumber, Matta, Bangor and Moraling Star, gold. Four shafts and tunie; free; hand
**			The Star of the East Mining & Prospecting Co., A. P. Hall, prest.; G. L. Hall, seey.; A. B. Whitmord treas.; W. W. McConnell, mgr, and supt. Cap. stk. \$1,000.(4). Star of the East, gold. Shaft, free steam.
.1			The Star of the West Mining and Milling Co., Colorado Springs, Colo. C. H. White, prest.; Sherwoo Addrich, sedy, C. G. Godfrey, treas. W. P. Hyatt, figr. Cap. 8tk, 81,000,000. Star of the West, El Horn, Rothschilds and Landon, gold, silver. Shafts.
**		**	The Sweet Minling & Milling Co., Pueblo, Colo., 210 S. Fulon av. Bardon Sweet, prest;; J. H. Sherman seey.; G. H. Hard, freas;; A. A. McKnight, mgr. Cap. stk. 81,500,000. Coinstock, El Reno, World Fair, 201d. Shaft, 10,200 fuos, free; horse. W. R. Walker, supt.
		**	The T. F. T. Mining & Milling Co., Colorado Springs, Colo., 100 E. Pike's Peak av. M. M. Baldwin, prest J. W. Bell, seey, and treas.; S. Blair, mgr. Cap. stk, \$500,000, T. F. T., gold, Shaft,
			Townsite Gold Mining Co., Colorado Springs, Colo., Chas. L., Nutt., prest., E. Shirley Borden, seey, an treats., A. D. De Masters, mgr, and supt. Cap. stk. \$1,000,000. Townsite, gold. Shaft; free and r fractory; horse developing.
**			Tuscarora Gold & Silver Mining & Milling Co., Denyer, Colo., 205 Boston Bidg. O. P. Grove, prest.; G. G. Speer, seey, and treas. Cap. 8tk. \$200,000. Tuscarora, gold and silver. Shafts and tunnels, free an refractory. C. P. Roffe, supt.
••			Union Gold Mining Co., Colorado Springs, Colo., Room 1 Midland Block. James Beshears, prest.; G. M. Carter, seey., H. Morse, treas., Geo. A. Jones, mer, and supt. Cap. stk. \$1,250,000. Pike's Peak, be monico, Orpha May, gold. Shaff, 600 fons; Tree; horse, hand; 20 stangs.
			Valley Lode Mining Co., Denver, Colo., 1638 Lawrence st., T. R. Speer, prest.; J. Richardson, vprest.; S. Hooper, seey, and treas. Cap. 8th, 890,000. Vaffey Lode, gold. Shaft, 175 fons; free, steam of veloping. A. K. Hofman, supt.
			The Virginia M, Consolidated Mining Co., Colorado Springs, Colo., 111 E. Kiowa st. B, H, Bryant, prest D, M, Sells, seey.; E. W, Sells, freas. Cap., stk., \$1,001,090. Gold and silver. Tannel, shaft, open: r fractory, free; hand obeveloping. W, A, Welch, supt.
			The Work Mining Co., Colorado Springs, Colo., J. Beshears, prest., H. E. Bassitt, seey.; H. C. Mill trens.; J. T. Deed, mgr. Cap. &k. \$1,250,000. Elght claims, gold. Shaft, tunnel; refractory; han developing. H. Schews, supt.
		**	The World Mining & Milling Co., Denver, Colo. Dr. J. T. Reed, prest.; A. Huyser, seey.; Robert Smit trens., E. F. Met losky, mgr. Cup. stk. 81,250,000. West View, Mohawk and others, gold and silve Shaft, funnel, drift; refractory and free; hand, John Bryant, supt.
			The Vellow Jacket Mining & Midling Co., Pneblo, Colo. Harry Barndollar, prest.; H. Williams, seev,; W. Guyun, Ireas. Cap. 8tk. 8750,000. Vellow Jacket, gold. Shaft and tunnel; free; horse. Hen Brown, supt.
Cr sman Ry. 7	76.	Boulder	Andre Morel. Gold and silver. Tunnel, shaft, free, refractory; hand developing .
			H. S. Niles & Sons. Gold Crown, Silver Bell, Joe Dandy, gold and silver. Shaft, free, refractor water (developing).
Crystal Ry, 0	farbond	tannison ale 215.	The Bear Mountain Mining & Milling Co., Aspen, Colo., 303 Galena 84. W. Porter Nelson, prest. Edga Stallard, seey, and treas. Cap. 8tk, \$2,000,000. Illinois, salver, gold and lead. Tunnel; refractor, hand dieveloping). B. F. Pinson, supt.
			Black Eagle Consolidated Mining Co., Aspen, Colo., Room 2 Wheeler Opera House Block. Henry R. Woo ward, prest, and mgr., W. B. Cochran, seey.; Henry T. Tessington, treas. Cap. stk. \$2,000,000. Blac Eagle, Silver. Shaff; free; horse, hand. J. W. Williams, supt.
			Elk Mountain Silver Mines Co., Chillicothe, Mo. R. Barney, prest.; A. McVey, seey.; M. E. Crellin, treas James Usher, ngr. and supt. Cap. stk. \$1,000,000. Elk Mountain, silver and lead. Tunnel, 100 ton horse developing.
			Mineral Point Mining Co., Abilene, Kan. L. Hoffman, prest.; J. H. Hoffman, seey, and treas. Cap. st \$300,000. Agatha, Daisy, silver, lead and copper. Tunnel, shaft, free; hand. John Walliser, supt.
			The Sheep Mountain Tunnel & Mining Co., Aspen, Colo. B. S. Phillips, prest, and mgr.; Geo. C. Fete seey, and treas. Cap. stk. \$2,000,000. Gold, silver, lead and copper. Tunnel, 8,000 tons; free; wate electricity. B. F. Fierson, spit.
dannal.			

Cumbres Conejos J. C. Bradley jr. & Co. J. C. Bradley jr., prest, and seey.; G. W. Close, treas, and mgr. Cap, stk. \$20,000. North Star, gold and silver. Tunnel, 520 tons; refractory; free; hand. J. A. Dumas, supt.

Custer (not a P.O.) Custer Ry, Rockvale 26.6 m/s. Seede Mining Co., Pueblo, Colo., 132 and 133 Central Block. John H. Voorbees, prest.; T. H. T. Schooley, seeg.; T. A. Sloane, treas; Jeff Steele, mgr. Cap. 8th, 8250,000. Franklin, gold, silver, lead and copper. Timnel, Shaft: retractory; horse developing.

Dillon ... Summit John Beasley, Maryland, gold, Placer; hand, Ry, 215, 776.

Fulford

Gardner

Ry, Eagle 215 (18 m.).

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

#### GOLD AND SILVER -(CONTINUED)

Dillon Summit James H. Ryan, Baltimore, Blind Tom, Jessie, War Eagle, gold, silver and lead. Tunnel, 75 tons; free;

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

(Contin	wd.)	hand, W. H. Fish, supt.
** .	"	Salt Lick Mining Co., Breckenridge, Colo. Cap. stk. \$10,0000. Salt Lake, gold. Placer, open, 200 tons. free; water. Ed. Carter, supt. and mgr.
Dumont Ry, 776.	Clear Creek	Capital Mountain Mining, Tunnel & Milling Co. Thos, A. Ireland, prest.; Philip R. Stanlupe, seey.; Wm L. Ireland, trens. Cap. stk. \$500,000. Senator, "H. H.," gold, lead and silver. Tunnel, shaft, 150 tons, refractory; steam; 15 stamps. Philip R. Stanlupe, mgr. and supt.
*1	. "	B. Edwards, A. H. Koren, Dr. Leininger, Chicago, Ill., 108 E. Randolph st. Big Dipper, gold. Shaft and tunnel; refractory (developing).
**	**	The Lee Gold & Silver Mining Co., New York City, 45 Broadway. J. B. Herbert, prest, and mgr.; Lindley Murray, seey, and treas. Cap. stk. \$250,000. Lee, silver, gold, lead and copper. Shaft, tunnel; refractory, R. S. Herbert, supt.
	**	R. G. Morrison. Phosphate, Rustic, silver, gold and lead. Tunnel; refractory (developing).
Durango Ry. 215.	La Plata	E. S. Reed & N. L. Twitchell. Charlie Ross, silver. Tunnel; hand.
** .	**	J. S. Sheek, Hesperus, Colo. Cap. \$2,000,000. Southern Boy and others, gold and silver. Shaft, tunnel: refractory; hand (developing).
Edwards Ry, Allente		Hockett & Wright. Hillside Group, Great Western, gold, silver and lead. Shaft, tunnel; hand. D. E. Wright, supt.
Empire 6 Ry. 776.	Clear Creek	Headlight Mining & Milling Co., Colorado Springs, Colo., P. O. Box 241. I. J. Woodworth, prest.; M. T. Hale, seey.; C. M. Rice, treas. Cap. slx, \$1,000,000. Headlight, gold and silver. Shaft, hunnel; free, steam. A. J. benton, mgr, and apt.
**	41	F. L. Peck. Gold Dirt, Dunderberg, Atlantic, gold. Shaft, tunnel; free; steam. F. L. Peck, supt.
**	**	D. A. Sherwood & Son. Golden Chariot, Golden Era, gold and silver. Tunnel, shaft, 600 tons; free; hand D. A. Sherwood, supt.
Eureka Ry, Silvert	San Juan on 215,	James A. Chapman, Lake City, Colo. Golden Chain, gold. Tunnel; refractory (developing).
**	**	Rasmus Hanson. Sunnyside Extension, silver, gold and lead. Tunnel, 5,000 tons; free, refractory; steam 20 stamps.
**	**	F. W. Harlow & M. M. Engleman. Cap. \$5,000. Lake Lode, gold and silver. Shaft, open; free, refractory; hand. F. W. Harlow, supt.
**	**	Sunnyside Mining & Milling Co., Montrose, Colo. E. L. Osborn, mgr. Sunnyside, Republic, Little May Climax, gold, silver and lead. Tunnel, shaft: free; water, steam; 10 stamps. F. S. Thompson, supt
Fairplay Ry, 776.	Park	Emmons Mining Co., Denver, Colo., 44 Jacobson Block. Geo. F. Batchelder, prest.; F. R. Miller, seey. Fred Dick, treas.; Scott Webber, mgr. Cap. stk, \$2,000,000. Silver and lead. Shaft, drift, 15,000 tons retractory; steam; concentrator. Sumnel Home, supt.
Fall Creek (P. O. Plac 628 (12 m	San Miguel erville) Ry, tiles),	Mt. Wilson Gold & Silver Mining Co., Placerville, Colo. E. C. Sherwood, prest.; O. T. Sherwood, seev, and treas. Cap. stk, \$80,000. Silver Pick and others. Tunnel, 150 tons; refractory; hand. J. T. Wanne maker, ngr. and supt.
Farnham Ry,Jefterse	Park pu776 (7 m.).	O, Granstrom & Co. Red Cloud, gold, Tunnel and shaft; free; mill (developing).
**		C. H. Pike. Blue Light, silver and lead. Tunnel, shaft; free; hand (developing).
**	**	Seven-Forty Consolidated Mining Co., Denver, Colo., Denver Chib Bldg. E. R. Hallack, prest.; W. E. Huntington, secy, and treas,: J. C. Lewis, ingr. Cap. stk. \$500,000. Seven-firity and Silver Queen gold, silver, copper, lead. "Timel, 600 tons; free; band. C. H. Pike, sup.
Florissant Ry. 26,	. El Paso	Anchoria Leland Mining & Milling Co., Colorado Springs, Colo. Irving Howbert, prest.: A. Sulton, seey, J. O. Plumb, treats.; H. & Witson, mgr., and supt. Cap. stk. \$500,000; indv, eap. \$25,000. Gold, sliver Shaft and tunnel: refractory and free: horse.
	**	Creede & Cripple Creek Mining & Milling Co., Colorado Springs, Colo. R. W. Anderson, prest.; H. E. Bassett, seey.; D. P. Sell, treas. Cap. stk. \$800,000. Gold (developing).
**		Virginia "M." Mining Co., Colorado Springs, Colo. B. H. Bryant, prest.; D. M. Sells, seey.; E. W. Sells treas.; W. A. Walch, ngr. Cap. stk. \$500,000. Lincoln, Midland, gold, silver, copper, lead. Shaff and drifts; refractory, free; 25 stamps.
Frisco Ry, 215, 776	Summit	Gold Mint Mining Co., Denver, Colo. Geo, W. Bowman, prest.; Jno. C. McCoy, secy.; Geo, H. Raymond treas. Cap. stk. \$100,000. Gold Mint, gold. Shaft, tunnel; free; water; 10 stamps. E. T. Howell, supt

Ry. Summit 215 (20 m.) Grand Colorado & Kentucky Mining & Smelling Co., Louisville, Ky., Merchants' National Bank. J. H. Linden-ker Hy. Berger, prest.; Everett M. Harmon, mgr. and supt. Cap. stk. \$3,600,600. Hidden Treasure, Eveelslor and Silver (neen. silver. Tunnels; refractory. Gaskill (P. O. Grand Lake) Ry. Georget'n 776 (60 m.).

. Huerfano J. G. Taylor. Grand View No. 2 and Little Pittsburg, gold, silver, lead and copper. Tunnel; hand.

Eagle Bartholf Bros. Polar Star Group, gold. Tunnel, slope, 15,000 tons; free; steam; mill. E. H. Bartholf, supt.

John Beauman & Jos, Domandel. Lucy and Golden Bell, gold. Tunnel, shaft, 2,000 tons; free; hand; to stamps. Jos, Domandel, supt. Fulford Mining Co., Eagle, Colo. 41, B. Fulford, prest.; E. J. Fulford, secy.; F. W. Fulford, treas.; A. L. Fulford, mgr. and supt. Toronto, gold, silver. Tunnel; free; horse. B. S. Morgan & McSouth. Adelaide and Gold Dust Groups, gold, silver, copper. Tunnel, 100 tons; free: 10 stamps.

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF DUE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF FOWER USED, NAME MILLS, ETC., AND NAME OF MINE SUPPRINCEMENT.

TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Georgetown Clear Creek Ry, 776,	Baltimore Mining & Milling Co., Denver, Colo., 1316 Eightrenth 81, John Fillius, prest, and mgr.; William H. Emanuel, seev. and treas. Cap. 8tk. \$50,000. Baltimore Tunnel, silver, lead. Tunnel, shaft; steam. Geo. Myers, supl.
**	Colorado Central Consolidated Mining Co., New York, Paul Lichtenstein, prest.; W. F. Mantins, seey.; J. K. Creevey, treas.; Ernest L. Foster, ingr. and supt. Cap. stk. \$2,750,000. Colorado Central, silver, lead. Tunnel, shaft, L500 Ions; water.
	Essey Free Coinage Mining Co., Golden, Colo., P. O. Boy 35. E. W. Rogers, prest, and mgr., F. W. Rogers, seey, and freas. Cap. stk. \$250,000. Triumph, silver. Shaft; refractory (developing).
n 6	Gold Hill Mining Co., Brockton, Mass. Lowell M. Reynolds, prest.: Frank E. Angerer, seey.; O. A. Rollins, treas: J. S. Alan, ngr, and supt. Cap. 8tk. \$1,000,000. Gold Hill, gold and silver. Tunnel; refractory; hand.
64 46	H. M. Griffin, 604 Second st. Seven-Thirty Group, 50 claims, gold, silver, lead and zinc. Shaft, tunnel; refractory; steam. Alfred Hedberg, supt.
	Hamilton Gold & Silver Mining Co., St. Louis, Mo. Hamilton Daughaday, prest.; F. J. Casey, seey.; S. Dodd, treas.; David Kennedy, ingr. and supt. Cap. stk. \$500,000. Hamilton, gold, silver, copper. Shatt. 4,500 tons; reftractory; steam.
**	Montrose Gidd & Silver Minling Co., Georgetown, Colo. E. R. Strong, prest.; Guy F. Cole, seey.; J. D. Clapp, treas.; C. J. Nleholas, ngr. and supt. Cap. stk. 8500,000. Montreal and West Rip Van Winkle, silver, lead. Tunnel; refractory.
	Mt. McCiellan Mining Co., Ltd., London, England. Douglas, A. Onslow, chairman; E. E. Webb, seey.; H. M. Griffin, mgr. Cap. stk. \$1,500,000. Stevens, gold, silver, lead and zinc. Shaft and tunnel; refractory. Thomas W. Jones, stpt.
**	E. G. Naylor (lessee). Poorman, Bullion and Red Jacket, sliver, gold. Shaft and funnel; hand, horse,
0.00	Chas. R. Nish. Vice-President, sliver, lead. Tunnel, 415 tons, free; hand. J. M. Copeland, supt.
	Silver Glance Mining Co. James F. Tuckey, prest., Fred P. Dewey, seey., treas, and mgr. Cap. stk. \$150, 100. Silver Glance, silver, lead. Shaft, 525 tons, free; steam.
	R. S. Willis. Matilda Fletcher, silver, lead. Tunnel, 50 tons.
Gilman Eagle Ry, Rock Creek 215.	Calumet Mining Co. W. T. Vincent, mgr. Calumet, gold, silver, lead. Tunnel, shaft, 100 tons; free; horse,
***************************************	T. W. Vincent, Combined Discovery, silver, lead. Tunnel, 1,000 tons, free.
	F. A. Reynolds, Cañon City, Colo., Fremont County Bank. F. A. Reynolds, prest., F. E. McGee, seey., E. T. Walverton, mgr. and supt. Ben Butler, gold, silver. Tunnel, shaft, 300 tons; free; steam.
Ry, 26, 215.	Grant & Murphy. Washington, sliver, lead and iron. Shaft, tunnel, slope, horse and hand; 66,000 tons. Richard Grant, supt.
	Oasis Minling Co. Sydney Broughton, prest.; J. T. Williams, seey.; G. B. Jones, treas.; J. H. Pierce, mgr. and supt. Cap, stk, \$100,000. Bonanza and Cornucopia, gold and silver. Tunnel; free; horse.
Gothic Gunnison Ry, Crested Butte 215	Moss Rose Mining Co., Atchison, Kan. Moss Rose No. 2, silver. Tunnel, refractory; hand. Edwin A. Sperry, supt.
Grand Lake Grand Ry. Georgetown 776 (65 miles).	Grand Lake Mining & Smelling Co., Quiney, Ill. J. R. Schatt, prest., F. Fllinch, seey., T. W. Alyer, treas, Cap. 8tk, 8,250,000. Wolverine, Wolverine Extension, Jim Bowen, Sandy Campbell and others, silver. Tunnel and shaft, 500 tons, refractory, hand.
	Robert C. Graves. Cap. \$5,000. Last Hope, gold. Shaft, 500 tons; free; horse.
	Clyde W. Klug. Cap, \$2,500. Jimmy, gold. Shaft, 350 tons; free, horse,
	J. N. Pettingell. Savage, sliver, lead. Shaft and tunnel; refractory developing .
	J. L. Wescott. Iron King and Nabob, gold, silver. Tunnel; free; hand.
Granite, Chaffee Ry, 26, 215.	Twin Lakes Hydraulic Gold Mining Syndicate, Ltd., London, England. Norman Smith, prest.; Vere-Herbert Smith, seey- and treas.; B. Sfauley Revett, mgr, and supt. Twin Lakes Placers, gold. Placer: hydraulic
Gunnison "Gunnison Ry, 215.	Midland Mining & Milling Co. D. B. Cherry, prest.; C. T. Sills, seey.; T. S. Ferris, treas.; J. C. Helmich, mgr. Cap. stk. \$600,000. Noah and Golden Are, gold. Shaft, funnel, 9,000 tons; steam, water; mill.
Halin's Peak Routt Ry, Rawlins, Wyo., 776.	D. Miller. Gold. Placer; water.
Ry, 828 (to miles.)	Hechtman & Lewis, Durango, Colo. Cap. \$5,000. Eagle Pass, gold, silver. Tunnel, shafts, 50 tons; refractory; hand; to stamps. J. F. Hechtman, supt.
	James G. Sheek. Silver Belle. Tunnel, 2,000 tons; free; hand.

Hillside

Ry. Cotopaxi 215. Horseshoe, Ry, Fairplay 776 14 m.).

Howard Ry, 215, Howardsville. Ry. Silverton 215.

Fremont A. W. Coale & F. R. Hanna. Gem Jewel and Gem Palmer, gold, silver, platinum and nickel. Shaft, tun-215. nel; hand; concentrator. A. W. Coale, mgr, and supt.

Park Cato Mining & Milling Co., Denver, Colo., care of Clobe Smelting Co., A. Chanute, prest.; D. Sheedy, 44m.). v.-prest. J. M. Walker, seey, and trens. Cap. 8tk, \$200,000. Only Chance, Valid and Cato, silver and clad. Shaft and tunnel, 8000 tons; refractory; steam; concentrating nill, 60 tons. J. L. Loomis, supt. N. L. Gibson & W. H. Powless. County Line, silver and lead. Open cut and shaft, 450 tons, free, hand.

Mrs. Henrietta C. Work. Dauntless, silver, lead. Tunnel; free; horse. G. A. Hanlin, mgr. and supt.

.Fremont Charles Chavers. New Discovery and Copper King, sliver and copper. Shaft; refractory.

.San Juan
The Pride of Louisville, Louisville, Ky., 119 Third st. John W. Lucas, prest.; R. H. Doen, seey, and treasn 215.

The Pride of Louisville, Louisville, Ky., 119 Third st. John W. Lucas, prest.; R. H. Doen, seey, and treasCap, stk. \$1,000,000. Rochester, Progressive, Courtland, etc., gold, silver, lead, copper, Tunnel; hand,
John Netherton, ngr., and supt.

Louisa M. Alcott Mining Co., Denver, Colo., 846 Equitable Bldg. Olive Wright, prest.; Nellie Rugg, seey.; Libbie Martin, treas. Cap. stk. \$500,000. Geneva, gold. Free developing.

#### GOLD AND SHIVED WONTHER

GOLD AND SHLVER-(CONTINUED)			
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.			NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,  NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,00 POUNDS, KIND  OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Town	AND (	OUNTY.	
Idaho 8 Ry.	prings,Clea 776,	r Creek	The Argonaut Consolidated Mining & Milling Co., Denver, Colo., Room to Jacobson Ridg., G. D. Johnson, prest, and mgr.; Max Baer, seey, and treas. Cap. stk. \$1,000,000. Twenty-five lode claims, 3 operating gold, silver, lead. Shaft, tunnel, 100 tons; refractory; steam. G. D. Johnson, supt. Mine 7 miles from Ry.
**			Commonwealth Mining Co. John Cochran jr., prest.; Thos. B. Bryan, secy.; Allen B. Wrisley, treas.; Geo. A. Chipman, mgr. Cap. stk, \$160,000. Little Mattle, Great Republic, etc., gold, silver, lead. Shaft; refractory; concentrator. Angus Sutherland, supt.
**		**	Comstock Gold-Silver Mining & Milling Co., Denver, Colo., Room 7 Essex Bldg. S. C. Fulton, prest.; W. P. Caruthers, seey.; James W. Clarke, treas.; Thomas Woodward, ngr, and supt. Cap. stk. \$500,000. Comstock, gold and silver. Shaft; refractory; steam.
			The Edgar Union Mining Co. James Robson, prest.; J. H. Wright, seey.; Robert Turner, mgt, and supt. Cap. stk. 530,060. Edgar Union, Fulton, Humphry, Comstock, gold, silver. Shaft and drift: refraetory; steam.
		**	A. P. Fonda & Chas, Stinson, Kansas City, Mo., 707 New York Life Bldg. Gem. gold. silver. Tunnel. 100,000 tons; free.
**		.,	Gold Bar Mining & Lode Co., Denver, Colo., 1543 Lawrence st. G. W. Enright, prest, and mgr. and supt.; J. H. Means, seey, and treas. Cap. 8tk. \$900,000. Gold Bar, gold. Placer; free; water.
**			Himrod & Hudson, New York, 191 Fulton st. Lamartine, gold, silver, lead. Shaft, 3,000 tons; refractory steam. Silas Hanchett, supt.
		16	Iron Duke Mining Co., Denver, Colo., 1914 Washington av. Wesley Lyons, prest.; S. C. Jackson, seey.; R. A. Wagner, treas.; Washington Johnson, mgr. and supt. Cap. stk, \$50,000. Iron Duke, Hamilton, Jackson and Brown, gold, silver. Shaft and tunnel, 500 tons; refractory, free; horse; 5 stamps.
**		**	The Kohinoor & Donaldson Mining Co., Ltd. George Hopkins, prest.; W. H. Rowe, seey, and treas. champion, Donaldson, Kohinoor, gold, silver, copper. Free and refractory; steam, water; 50 stamps. Geo. S. Vivian, mgr, and supt.
••		**	May Flower Mining & Milling Co., Minneapolls, Minn., Washington Bank, C. O. Nash, prest.; E. Davis, seey.; O. E. Brecke, treas. Cap. stk. \$1,000,000. May Flower, gold, silver. Shaft, 8,000 tons; refractory; steam; concentrator. A. H. Koren, supt.
		**	P. Mixsell. Clarissa, gold, silver. Shaft; free; steam; to stamps.
**		**	Pewabie Mining Co., Denver, Colo., 40, 411 Boston Bldg. A. W. Powell, prest.; H. A. Wimbush, seey, and treas.; Fred Hills, mgr. Cap. stk. \$250,000. Ben Franklin, Uncle Sam and 4 others, gold and silver. Tunnel, 2,200 tons; free; hand. N. A. Wimbush, supt.
**		**	Estate of Jo. Reynolds. Jo. Reynolds, gold, silver, lead. Shaft, tunnel, 834 tons; refractory; steam. J. E. Chester, mgr. and supt.
		**	The Salisbury Mining and Milling Co. John Vork, prest,; Samuel H. Cregar, seey, and treas. Cap. stk \$150,000. Salisbury, gold, silver. Shaft, tunnel, 5,000 tons; refractory; steam; concentrator. Chas. A Gehrmann, mgr. and supt.
		**	The Stanley Mining Co., John York, prest.; Samuel H. Cregar, secy, and treas. Cap. stk. \$150,000. Stanley, gold, silver. Tunnel, shaft, 6,000 tons; refractory; steam. Chas. A. Gehrmann, mgr. and supt.
		**	Tramway Mining & Milling Co., Denver, Colo., cor. Ellsworth and S. Water sts. Thomas L. Roberts prest, and mgr.; E. Buebler, seey.; O. G. Smith, treas. Cap. stk, 830,000. Gem. Dog Tray, Tom Kirby and 4 others, gold, silver, lead. Shaft, tunnel; free; horse. Samuel Marchington, sph. (Developing.)
**		**	Treasure Vault Gold & Silver Mining Co., Milwaukee, Wis., 408 Milwaukee st. John E. Burton, prest, and treas.; Stoddard H. Martin, seey. Cap. stk. \$1,000,000. Treasure Vault, gold, 70 tons; free; hand Geo. A. Hamilton, mgr, and supt.
Ironton Ry.	1 215.	Ouray	Candice Mining & Milling Co., Clearfield, Pa. Hon, W. A. Wallace, prest.; Thos. L. Wallace, treas. Candice, gold, silver. Shaft, 100 tons; steam. L. H. Krebr, mgr. and supt.
		**	La Plata Mines, Ltd., London, Eng., 11 Poultney st., E. C. Henry Richards, seey.; Philip Argall, mgr Cap, stk. \$2,000,000. White Cloud, silver. Shait; steam developing. John R. Mitchell, supt.
		**	Midnight Mining Co., Ouray, Colo. Sam, W. Gregory, prest.; Geo. H. Kean, seey.; Alfred E. Keet, treas Cap. stk. \$300,000. Midnight, Daylight, silver, gold, lead, 2,500 tons; free; steam. P. J. Holmgrain, supt
**			The Mine Owners' Trust, London, Eng., 11 Poultiney st., E. C. Philip Argall, mgr. Cap. stk. \$150,000. Several prospects (developing). John R. Mitchell, supt.
		**	Saratoga Mining Co., St. Louis, Mo., 417 Olive st. E. C. Shamons, prest.; W. K. Spinney, secy.; Geo. L. Allen, treas. Cap. stk. \$1,000,000. Saratoga, gold, silver. Tunnel; refractory; steam. L. R. Fry, supt
1rwin Ry.	Crested B Smiles).	unnison utte 215	Forest Queen Mining Co. F. W. Fuller, prest, and mgr.; B. F. Woodward, seey. Cap. stk. \$1,000,000 Forest Queen, gold, silver. Shaft, tunnel; refractory; steam, water. F. W. Fuller, supt.
			The Ruby King Mining Co. Coloredo Springs, Colo. Room on Bank Bldg. Louis R. Ehrich prest - Frank

The Ruby King Mining Co., Colorado Springs, Colo., Room 20 Bank Bldg. Louis R. Ehrich, prest.; Frank White, seey.; Lewis A. Civill, treas.; Frank G. White, mgr. Cap. stk. \$1,000,000. Ruby King, Republic, silver, gold. Shaft, tunnel. John Koonts, supt.

Jackson . . . Gum Ry, Cimarron 215. Gunnison Capt. M. W. Cline. Brutus, Sheba Queen and others, gold, silver. Tunnel: refractory, free; hand,

Jamestown . . . Boulder H. C. Albertson & Win, Brown . Cap. \$10,000. Baltimore Belle, gold. Shaft. H. C. Albertson, supt. Ry. Boulder 776 (14 miles).

- G. J. Evans. Silver Ledge, gold, silver. Shaft and tunnel; retractory. Walter Clemens, supt. Gebhard & Brown. Bueno, gold. Shaft, tunnel, 600 tons; refractory; horse. Golden Age Mining & Milling Co., Robert F. Harrison, prest, and mgr.: Wm. E. Harrison, secy.: John W. Tullis, treas. Cup, stk. sl.000,000. Golden Age, gold, silver. Shaft and tunnet; free and refractory: steam; S stamps. Wm. E. Harrison, supt.
  - O. N. Heckman, Cap. stk. \$50,000. Mand 8, and Star Groups, gold, silver, copper. Tunnel; refractory, W. W. Emmett, supt.

	GOLD AND SHLVER -(CONTINUED)
LOCATION OF MINE,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
RAILWAYS, WATER ROUTE AND SHIPPING POINT.	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
Town AND COUNT	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT,
Jamestown Bould (Continued.)	er Mountain Chief Mining & Milling Co., Denver, Colo., 5 and 6 Steele Block. Dr. J. R. Van Allen, vprest., C. V. Mead, seey, and treas; A. J. Denton, mgr. Cap. 8tk. 81,000,000. Mountain Chief Group, gold, silver, Shaft, funnel; refractory hand, R. H. Poace, sppt.
	silver. Shaft, hinnel; retractory; hand. R. H. Poage, supt. Wylle Mining & Milling Co., Denver, Colo., 329 Seventeenth st. Judge O. N. Hilton, prest.; I. E. Devill, seey, and freas.; O. E. Du Bois, mgr. Cap. stk. \$500,000. King Wilhelm, Badger, Noble Ella, gold, silver. Shaft; refractory, free; horse. O. E. Du Bois, supt.
Jimtown El Pa Ry, 215.	silver. Shaft; refractory, free; horse, O. E. Du Bois, supt. so Cleopatra Mining Co., Colorado Springs, Colo., 17 E. Pike's Peak ay. A. A. McToyney, prest.; A. J. Lawton, seey, and treas.; E. H. Crawford, mgr. Cap. stk. \$2,000,000. Cleopatra, New Discovery, silver. Shaft, funnel; free; horse, hand developing). John W. Blades, supt.
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Kissellville Conej	The Missonri Paraific Mining Co., Denver, Colo., 1928 Seventeenth st. W. G., Bansemer, prest; W. E., Perkins, seevy, C. W. Willelt, treas; L. M. Keiller, mgr. and supt. Cap. stk. 8590,000. Dakota, blaho, Wyoning and others, silver. Shaft, minic; hand.  18. Jack Gray Willing Co., Usler Colo. P. Lahov prest: Wun Morgan yoov; John Musson, treas; Win. Morgan joov; John Musson
lette 215.	J. J. Mercer, supt.
Lake City. Hinsda Ry, 215.	de Capital City Mining Co. Thomas B. Hannah, prest., Geo. P. Duntham, seey, and treas. Capital Nos. (and 2 and Lilly, gold, Silver, lead. Tunnel, 3,550 tons; steam. J. F. Herzinger, mgr. and supt. M. Dempsey. Cherokee, silver, gold. Shaft, tunnel; refractory; hand developing).
	Golden Fleece Mining Co. Geo. W. Pence, seey, and treas.; Henry Monell, supt. Golden Fleece, gold silver. Tunnel; refractory, water.
	Lewman & Rowan, Broker, gold, sliver, copper, lead. Shaft developing),
**	Ute & Ulay Mines, Ltd., London, Eng. Ute and Ulay, silver and lead. Shaft and tunnel; steam.
11 16	Vellow Medleine Syndicate, R. E. McCormick, prest.; W. J. Elmendorf, mgr, and supt. Vellow Medicine, gold, lead. Tunnel, refractory.
Lamartine . Clear Cre Ry, Idaho Springs 7	k. I'te Chief Mining Co., Denver, Colo., 355 Club Bldg. M. L. Cox, prest., Frank Russell, seev, and treas.:
La VetaHuerfa Ry. 215.	io Elrod & Graham. Standard, silver. Tunnel; free hand.
4	G. W. Graham. Blue Ribbon, silver, gold, copper. Shaft, free.
**	G. W. Graham & I. Efrod. Standard, gold and silver. Shaft; free.
	G. W. Graham & Co Criterion, gold and silver. Shatt; free (developing).
	Ireland Bros, & Kane. Coyote, silver. Shaft; refractory; hand. Charles Ireland, supt.
**	Kane & Ireland, Cap. \$15,000. El Coy ite, silver, lead. Shaft, tunnel, free; hand. F. W. Kane, supt.
	Morse, Clifford & Hills. Passey, Omaha, gold, silver, lead. Shaft developing.
	Pine Grove Mining & Midling Co., J. H. Tudore, prest., G. W. Kely, seby.; J. Cloron, treas., J. S. Willis, ingr. and supt. Cap. stk. 8100,000. Little Domlino, gold, silver. Tunnel, free; hand (developing).
	Sefton & Slone, Gold, silver and iron. Tunnel; refractory and free. C. B. Slone, supt.
	Silvér Mountain Mining & Milling Co. W. B. Tuttle, prest., J. M. Jones, seey, and treas., A. R. Ireland, uggr, and supt. Cap. stk, \$500,000. Troy. Blanche and others, silver and lead. Tunnel, shaft; free; hand.
	Somerset Mining & Milling Co., Denver, Colo., Room's Taltee Bidg. Henry A. Gilkison, prest.: Geo. J. Humbert, seey, and treas.: Thomas McEniry, mgr. Cap. 8th, 84,000,000. Somerset, gold, silver, lead. Tunnel, place: refractory; hand. T. J. McEniry fr., supt.
Lawrence . El Pa Ry. Florence 26, 215.	60 Edwin Booth Gold Mining & Milling Co., Denver, Colo., Room 60 Tabor Grand Opera House. Peter McCourt, prest; E. R. Argerslinger, seey.; (*, J. Rolly, treas., J. A. Hale, mgr, and supt. Adelaide, Alta and others, gold. Shaft; free; 40 stamps.
	Florence E, Mining Co., Colorado Springs, Colo., 198 N, Tejon st. P, E, Burtis, prest., W. E. Holmes, sery.; Thomas G, Cook, treas, S, M, Burtis, mgr., Cap. stk, 8250,000. Florence E., Jennie H., gold, sliver, Tunnel, shaft; free; hand developing. Thomas Wadillelon, sppt.
	Lawrence Mining & Milling Co. [4, F. Neuman, prest, and mgr.; S. S. C. Gaskell, seey.; R. S. Lewis, treas. Cap. 848, \$600,000. Tombighee, Lahr and 5 others, gold, silver. Shaft, tunnel, 6,000 fons; refractory, free, hand, horse, J. J. Pike, supt.
	J. R. McKinnie. Cap. \$4,00. Granite, Black Diamond, gold, silver. Shaft, tunnel; free; hand, steam; 20 stamps developing).
**	Mt. Rosa Mining & Milling Co., Colorado Springs, Colo. B. K. Walker, prest, and mgr.; G. S. Wilson, seey; A. H. Corman, treas. Cap. sik. \$1,000,000. Mt. Rosa, gold. Placer; free; water.
	National Relle Mining, Milling & Development Co. Tremon, Colo. James M. Parker, prest; J. L. Stebbins, seey, and treas.; Samuel Strong, ngr. and supt. Cap. stk. \$50,000. White House, Captain and others, gold. Shaft, thunde, placer; refractory, tree, hand.
14	Ophir Mining Co., Colorado Springs, Colo., 113 and 115 N. Tejon st. F. F. Horn, prest.; E. F. Welles, seey.; I. K. Fleal, treas.; A. K. Ratter, mgr., and supt. Cap. stk. \$500,000. Carbonate, Queen, Dead Pine, gold. Shaft, refractory, free; hand developing.
- "	Shatt, retractory, tree; hand developing.  Roqua Gold & Silver Mining & Milling Co., Cañon City, Colo. Dr. T. H. Craven, prest., C. W. Banta, seev., Abe Banta, treas; J. M. Burress, mgr, and supl. (ap. stk. 863000). Trail, Big Banter, Surprise and others, gold, silver. Shaft, placer; free; hand.
Lawson . Clear Cre Ry, 776,	and others, goad, silver. Shaft, piacer; tree; hand.  & American Sisters Mining Co., Denver, Colo., 44 Kittredge Bldg, L. M., Petitdidier, prest, and treas,; Henry Scifried, seey.; John H., Bowman, mgr. Cap, stk., \$500,000. American Sisters, silver, lead, gold, Shaft, tunnel, 1,000 tons; refractory, steam. John S. Gates, supt.
	The Bellevue Hudson Mining Co., Denver, Colo., Room 41 Kittredge Bidg. Hugh Mackay, prest., L. M. Petitididier, seey, and mgr.; William Harvey, Ireas. Cap. 8tk. Su0,000. Bellevue, Silver, lead. Shaft, tunnel, 1,100 tons; refractory, Steam. Jacob Widetich, supt.

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LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OB INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF OBE, KIND OF MINE, AND NAME OF MINE SUPERINESEMENT, OF FOWER USED, STAMP MILLS, FICE, AND NAME OF MINE SUPERINESEMENT,
TOWN AND COUNTY.	
Lawson Clear Creek (Continued,)	J. W. Hunter, Orient, silver. Shaft, 100 tons; free; steam,
	Livingston & Beandry, Denver, Colo., 1306 Seventeenth st. Tabor and Gov. Thomas, silver, lead. Shaft, tunnel, 135 tons; refractory; steam. Edmond A. Beaudry, supt.
Leadville Lake Ry, 26, 215, 776.	Boreel Mining Co., New York, N. Y., 1 Broadway. H. B. Denman, prest.; C. A. Cameron, seey. and treas.; S. W. Mudd, mgr. Cap. stk. \$3,000,000. Gonabrod, lead, silver. Shaft; refractory; steam.
n	M. Christmann et al., 328 E. Tenth st. M. Christmann, prest.; Oscar Christmann, secy, and treas.; James Kavanagh, ngr. Miners' College, gold, silver, lead. Tunnel; refractory; hand. Wm. Benein, supt.
. "	Clara Mining & Milling Co., Leadville, Colo., 122 W. Eighth st. C. Hood, prest.; S. W. Mudd, seey, and treas. Cap. stk. \$1,000,000. Colorado Boy, Bob Shepherd, Esmeralde, silver, lead. Shaft (developing).
44 44	The Col. Sellers Mining Co. W. F. Patrick, mgr. Col. Sellers, silver, lead. Shaft, 30,000 tons; refractory; steam. S. D. Nicholson, supt.
	Dunkin Mining Co., 115 E. Eighth st. Woodward Emery, prest.; William Favon jr., seey.; James C. Eins, treas, Warren F. Page, ngr. Cap. skl. 85,000,000. Dunkin, gold, silver, lead, fluxing from Shaft, tunnel, 12,000 fone; refractory; steam. J. T. White, supt.
	Evening Star Mining Co., New York, N. V., 58 Broadway, W. B. Dickerman, prest, Justin A. Edwards, seey.; H. K. Melfarg, treas.; Ezra D. Dickerman, nizr. Cap. stk. \$500,000. Evening Star, silver, lead, iron. Shaft, 30,000 Inserts, steam. Perfey Dodge, supl.
**	Fall River & Colorado Mining & Milling Co., Fall River, Mass. H. F. Laroten, prest.; Chas, Bugbee, seev, and treas. Cap. stk. \$1,000,000. Goldsmith, gold, silver. Shaft; water; 10 stamps.
**	First National Mining & Milling Co., Pueblo, Colo., Room 41 Grand Opera House. Col. A. W. Duggan, prest.; Aaron Sonneborn, seey, and treas; A. W. Duggan, ngr, and supt. Cap. 8tk, \$1,000,000. First National, gold, silver and lead. Shaft; free and refractory; steam developing.
	The Golden Eagle Mining Co., Harrison av., Quincy Block. Robt, B. Estey, prest.; C. C. Kellogg, secy. and treas. Cap. stk. \$500,000. Gold, silver. Shaft; free; steam.
**	Chas, H. Graham & M. Guggenhelm. Chas, L. Hill, mgr. A. Y., Minnie, silver, lead, zinc, iron. Shaft. tunnel, 30,000 tons; refractory; steam. Peter Murcay, supt.
** **	The Henriett & Maid Consolidated Mining Co., cor. Fifth and Harrison sts. D. H. Moffat, prest.; G. E. Rass Lewin, seey, and treas; Eben Snith, mgr. Cap. stk. 8:2500,000. Gold, silver, copper, lead, iron. Slatt, 76,000 tons; refractory, free; steam, electricity, J. J. Brown, supt.
41	Iron Silver Mining Co. Ashley Pond, prest.; Freeman Woodruff, seey.; John Nicol, treas.; W. Arns, mgr. and supt. Cap. stk. \$10,000,000. Iron Silver, silver, lead. Shaft; refractory; steam, electricity.
**	4.a Plata Mine Co., London, Eng. J. T. Hopwood, prest.; Henry Richards, seey.; Philip Argall, mgr. Cap. stk. \$500,000. La Plata, silver, lead. Shaft, 4,500 tons; steam.
*1	Lawrence, Hazlett & Co. Robt, H. Hazlett, mgr. Mahala, silver. Shaft, 20,000 tons; refractory; steam. Chas, Grimm, supt.
61	Leadville Consolidated Mining Co., New York, N. V., 1 Broadway. Peter A. Hegeman, prest.; C. A. Cameron, seey, and treas.; S. W. Mudd, nigr, and supt. Cap. sfk, \$4,000,000. Carbonate, silver, lead. Shaft, 2000 Ions; refractory; steam.
**	Jesse F, McDonald & Fred, G, Bulkley, Cap. \$200,000. Penrose, silver, gold. Shaft, 20,000 tons; refractory; steam; electricity.
	Morning Star Consolidated Mining Co., New York, N. Y., 53 Broadway. W. B. Dickerman, prest.: Justin A. Edwards, seey.; H. K. McHarg, treas.; Ezra D. Dickerman, mgr. Cap. stk. \$1,000,000. Morning Star, silver, lead. Shaft, 7,200 bons; steam. Pertey Dodge, 8,101.
	Seneca Mining Co., Paeblo, Colo., care of Colorado Smelling Co. R. Ellers, prest.; R. D. Dwight, vprest.; W. H. Aldrich, seey, and Ireas.; S. F. Parish, mgr. and supt. Cap. 8tk, \$100,000. Seneca, silver, lead. Shaft; refractory; steam.
**	Small Hopes Consolidated Mining Co., New York, N. Y., 1 Broadway, R. C. McCormick, prest.; C. A. Cameron, seey, and treas,; S. W. Mudd, mgr. and supt. Cap. 8tk, \$5,000,000. Forest City, Robert Emmet, silver, Shaft, 25,000 tons, free; steam
	Star of Hope Mining Co., John P. Jones, prest.; W. V. Carr, seey, and treas.; A. V. Bohn, mgr. Cap. stk, \$2,500,000. Star of Hope, silver. Shaft (developing).
	Union Leasing & Mining Co., Denyer, Colo., Room 6 Jacobson Bidg. F. L. Bellan, prest.; J. E. Price, seey, and trens.; Robt. B. Estey, mgr. Cap. stk., \$500,000. El Paso, Olive Branch and others, silver, lead. Shaft; steam (developing).
51 49	White Cap Mining Co. 1, K. Hamilton, prest.; W. C. Hamilton, secy.; A. C. Meriman, treas. Cap. stk. \$600,000. White Cap. Ocean Wave, gold, silver, lead. Shaft, 5,500 tons; refractory; steam. Jas. A. Shinn, supt.
Lenado Pitkin Ry, Woody Station 215.	Woody & Silver Creek Mining Co., Aspen, Colo. Henry Todd, prest,: J. N. Porter, seey., treas, and mgr. Cap. stk. \$2,000,000. Eighteen claims, silver and lead. Tunnel: refractory; hand. Win. Williams, supt.
Lincoln City Summit Ry, Breckenridge 776.	Clark & Reithmann. Spring, gold, copper, iron, lead. Shaft; refractory, free; steam. C. P. Clark, supt.

Magnolia ...... Boulder Augusta Mining Co., Boulder, Colo. Augusta, gold, silver. Shaft, 2,300 tons; refractory; horse, Wm. II. Ry, Boulder 776. Barber, supt.

" C. Stowell & W. Lusk. Cumberland, gold. Shaft; refractory; hand. C. Stowell, supt.

. Montezuma C. E. Hawkins and others. Jumbo, Wilson, Wade and others, gold, silver, copper, lead. Tunnel; refractory; hand. J. J. Wade, supt. Mancos ... Ry, 215,

Saratoga Mancos Gold Mining Co. F. W. Stubbs, prest.; R. W. Miller, seey, and mgr.; E. E. Humiston, treas. Cap. 8tk, \$200,000. Hypolite, Golden Lake, Second Choice, gold, silver. Tunnel; refractory; hand. F. M. Brittani, supt.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, hind of Mine, annual Outfut in Tons of 2,400 Founds, Kind of Power User, Stamp Milles, Erc., and Name of Mine Stephenstendent.
YOWN AND COUNTY.	
Manhattan Larimer Ry, Fort Collins 776,	Atlantic Mining Co., Fort Collins, Colo., W. W. Sullivan, prest.; F. S. Smith, seey.; C. Rugh, treas. Cap. stk. \$25,000. Atlantic, Arkansas, gold. Tunnel; free; mill.
	Bonanza King Gold & Silver Mining Co., Denver, Colo., 1422 Larlmer st. Granville Malcom, prest.; Sanford Stork, seey.; D. M. Maelen, treas.; B. F. Burnett, ugr. Cap. stk. \$500,000. Gold. Tunnel; free: water.
0.00	Free Gold Mining Co., Fort Collins, Colo. T. J. Montgomery, prest, and mgr.: Edward H. Hall, seey, and treas. Free Gold, gold. Tunnel developing).
p4 64	Relief Mining & Milling Co., Fort Collins, Colo. Sanford T. Hamilton, prest.; Clark Moore, secy.; A. W. Scott, treas.; A. N. Hoag, mgr. Cap. stk. \$250,000. Relief, Maggie, gold. Shaft; slope; steam.
44	Seven Mile Mining & Milling Co., Fort Collins, Colo. A. H. Craft, prest.; J. R. Wills, seey.; C. Rugh, Ireas.; B. F. Burnett, mgr. and supt. Cap. stk. 825,000. Balmaceda, Lulu, Madock, Nora, gold. Shaft: free; steam; mill.
Marble, Gunnison Ry, Carbondale 215.	H. W. Anderson & Co. H. W. Anderson, prest.: Evan Williams, seey.: Evan L. Jones, treas. Cap. 8tk. \$2,000,000. Eclipse, Prince of Wales and others, silver, lead. Shaft, tunnel; refractory. H. W. Anderson, mgr. and supt.
**	Beardsley & McNull, Detroit, Undine, silver, lead, Tunnel; refractory; free (developing).
	Orphan Boy Mining & Reduction Co., Denver, Colo., P. O. Boy 2507. E. B. Curtis, prest.; C. E. Curtis, seey.; M. A. Daniels, vprest, and treas., A. M. Daniels, nagr. Cap. stk. \$1,000,000. Orphan Boy. Silver Purse and others, silver, lead, copper. Shaft; tunnel, 300 tons; refractory; horse. A. M. Daniels, supt.
	The Scandinavia Mining Co. P. J. Billstrom, prest, J. E. Phillips, secy.; R. G. Carlisle, treas.; Chas-Billstrom, agr. Cap. 8tk. \$200,000. Silver King, gold, silver, copper, lead. Shaft, tunnel; hand developing.
	Warrior Minling Co., Cineliniati, Olifo, 41 Pike's Bldg. C. W. Burke, prest.; M. D. Burke, seey, and freas.; Col. Samuel Bachtell, nigr. and supl. Cap. 8tk. \$500,000. Warrior Quartzite, sliver, lead. Tunnel, shaft, free.
Maysville Chaffee Ry, 215.	North Missouri Group Mining Co. E. R. Brewlington, prest,, mgr, and supt.; Thos. F. Nelson, seey, and treas. Cap. 8tk, \$250,000. North Missouri Group, silver and lead. Shafts and tunnels, refractory, hand.
Mineral Point San Juan Ry, Ouray 215.	Silver Chord Mining Co., J. W. Cooper, prest., E. W. Gillman, seey., Ireas, and mgr. Cap. stk. \$50,000. Silver Chord, Silver, lead. Tunnel, 500 tons, refractory; hand. Edward M. Brown, supt.
" "	F. B. McIntyre & Co. (lessees). Union, silver, gold. Shaft, 425 tons, refractory, hand.
	The San Juan Chief Mining Co., New York, N. Y., 31 Broadway, J. L. 100, prest, J. C. Beach, seey, and treas.; Ed. M. Brown, mgr. and supt. San Juan Chief, gold, silver. Shaff, 60 tons, refractory, steam, mill.
	Trickey X Cooper, May B., silver, gold. Shaft, 20 tons, refractory; hand. J. W. Cooper, mgr. and supl.
Moffat , Saguache Ry, 215,	Alamosa Miningx Miffing Co., Alamosa, Colo, Win, M., Wykoff, prest., Z. T. Brown, seey., Juo. D. McNot-lan, freas.; N. 8. Sherard, mgr., and supt. Cap. 8tk, \$1,00,000. The Nettle, gold, copper. Shaft, timnel, free, water, steam, to stamps obeyeloping.
	Nash & Cartney. Gold Dirt, gold. Shaft, tunnel, 6,000 tons, free, hand, arrastre, stamp mill. B. Cartney, supt.
Monarch Ry, 215.	Colorado Smelting Co., Paeblo, Colo. Anton Ellers, prest., H. C. Cooper, seey.; W. S. Garnee, treas, Cap. stk. \$500,000. Madonna, silver, lead. Tunnel, 12,700 tons; refractory. A. S. Dwight, supt.
	Eelipse Silver Mining Co., St. Lonis, Mo., 421 Olive st. Ezra H. Linley, prest.; W. K. Spinney, seey.; E. C. Simmons, treas.; Charles H. Abbott, mgr., and supt. Cap. stk. \$100,000. Eelipse, silver, lead. Tunnel, 10,000 tors; refractory, land.
Montezuma Summit Ry, 776.	The Hunki-Dori Consolidated Silver Mining Co., Chicago, Ill., 120 Chamber of Commerce Bidg. Hon, H. A. W. Talior, prest.: Hon, W. G. Smith, v. prest.: Sheridan Seaman, seey. Cap. 8tk, 8550,000. Hunki-Dorl, Wilch's Head and others, silver, lead, copper. Tunnel; retractory. La Fayette seaman, supt.
Mt. Sueffles . Ouray Ry. Ouray 215,	hand.
Naturita Montrose Ry. Placerville 628.	Goulding Bros. Goulding, gold. Placer: hydraulic.
NederlandBoulder Ry, Boulder 776 (18 m.).	Collins & Garfield. Cap. \$3,000. Bolivar, gold, silver. Tunnel; refractory; hand developing)
	De Lande & Collins. Cap. \$5,000. Maginis, silver. Shaft, 52 tons; refractory; horse.
**	Rockey Moore. Cap. \$1,000. Next Best, gold, silver. Shaft, 1,000 tons; refractory; hand.
Needleton La Plata Ry, 215,	Little Jim Gold and Silver Mining & Milling Co., Peabody, Kan. Col. B. Pinkuey, prest., Col. D. Mc-Kereher, seeg.; J. S. Schroeder, (ress. Cap. slk. S1,500,000). Little Jim, E. A. K. and others, gold, sllver, Tunnel, slaft; free, Jas. S. Litvengood, supt.
**	James N. Livengood, Homestake, gold, silver, copper. Tunnel: free (developing).
Nevada Gilpin P. O. Bald Mountain Ry. Black Hawk 776.	$Rennetts \ \&\ Co. \ Burroughs, gold, silver. \ Tunnel, 200 tons; free; steam. \ W.\ T.\ Bennetts, supt.$
	O. H. Thurber, Gardner, Sidney B. Hawley, gold. Shaft; refractory, free; steam. Sidney B. Hawley, mgr, and supt.
Niegolds Town (San Juan (P. O. Howardsville) Ry, Silverton 215.	J. S. Robenson, Howardsville, Colo. Emma, Leona, silver, lead. Tunnel, 30 tons; free.
Martine Death Mark	All and A William Co., all and a second of the Co. In the second of the December of the Management of the Co.

Nolan Park Eagle Glenwood Mining Co., Glenwood Springs, Colo., G. B. Garrison, prest., C. W. Darrow, seey., G. H. C., O., Fulford, Ry., Eagle 245.

E. S. Barthoff, spri. E. S. Barthoff, spri. E. S. Barthoff, spri. E. S. Barthoff, spri.

LOCATION OF MINE.

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

Ohio Creek.... Gunnison (P. O. Pitkin) Ry, Ohio City 215,

#### GOLD AND SILVER-(CONTINUED)

North Star.... Gunnison Crymbler & Co., Buena Vista, Colo. David H. and others, silver, lead. Shaft; free; steam (developing), By, Sargents 215.

Ophir...... San Miguel M. I. Alkire, Mocking Bird, gold, Tunnel; free; 5 stamps, Rv, 628.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

May-Mageppa Consolidated Mining & Milling Co., Denver, Colo., Mining Exchange Bldg, Charles E. Taylor, prest, and mgr.; W. K. Rathyon, seey, and treas. Cap. stock, \$1,000,000. May-Mazeppa, silver, lead. Shaft, 4000 fons; retractory, free steam. John S. Olin, Sulp.

Carribean Mining Co., Holyoke, Mass. Moses Newton, prest.; J. A. McKinnon, seey; John C. Newton, treas; Claries S. Newton, ngr. and supt. Cap. stk, \$100,000. Carribean, gold, silver, lead. Tunnel, 2,400 tons.
A. J. Clark & W. S. Green. Cap. \$100,000. Suifolk and Globe, gold. Tunnels, 2,000 tons; free; water; 5 stamps. A. J. Clark, supt.

Gamnison Columbus Mining Co., Pittsburg, Pa., 541 Grant st. Jas. J. Flannery, prest.; T. J. Fitzpatrick, seey.; J. L. McCormick, freas.; J. M. Gardner jr., mgr. and supt. Cap. sik. \$150,000. Venango, gold, silver. Tunnel: refractory.

Altuerfano Spanish Peaks Coffer Mining & Milling Co., New York, N. Y., Room 9, 49 Exchange pl. W. M. McCarty, prest.; F. W. Klinne, seey. and treas.; B. F. Wayne, mgr. and supt. Cap. sik. \$2,000,000. Gray Copper, silver, copper, Gree (developing).

		stamps. a. o. vank, sup.
**		Deadwood Gold, Silver & Copper Mining Co., Mt. Vernon, Ohio. J. B. Graham, treas.; Thos. Clingan, mgr.: Deadwood, gold, silver, copper. Tunnel; shaft; refractory (developing). Thos. Clingan, supt.
**		Jarrett & White. American, Frenchman, silver, lead. Tunnel: refractory; band.
**		Montezuma Mining Co. Moses Newton, prest.; Chas. S. Newton, mgr. and supt. Cap. sfk. \$60,000. Silver, 100 fons.
**		Ophir Needle Mining Co. V. O. Taylor, prest.; M. W. Turner, seey, and treas. Cap. stk, \$2,500,000. Tidal Wave, silver. Tunnel, shaft; refractory. Thomas Clingan, mgr, and supt.
**		Horatio Page, Cap. \$4,500. Little Dorret, Bleak House, silver. Tunnel; hand, J. B. Ward, supt,
**		San Mignel Gold & Silver Mining Co., New York, N. Y. Osceola, Golden Crown, gold, Silver. Tunnel, 100 tons; free; hand; 5 stamps.
**	a	Silver Belle Mining Co., St. Louis, Mo., 100 N. Main St. E. S. Brooks, prest.; J. T. Watson jr., seey, and treas. Gold, silver. E. E. Bassett, supt.
9		M. P. Vaile, Cap. \$50,000. Star Light, silver, lead. Tunnel, 1,000 tons; refractory; hand. A. J. Clark, supt.
Ouray Ry, 215,	Ouray	American Gold Mining Co., St. Louis, Mo., 24 N. Third st. James Hopkins, prest.; Frank Carter, secy. and treas; J. A. Dunbann, ngr. Cap. sixk. 83,000,000. American, Nettle, gold, silver, copper, Tunnel, shaft, 1,800 tons; refractory; electricity, water. Walter H. Bunee, supple.
"	**	Barstow Mining & Milling Co., Titusville, Pa. M. W. Quick, prest, and mgr.; John J. Carter, seey, and treas. Cap. sik. \$1,000,000. Commodore, gold, silver. Tunnel; refractory, free; hand. Sophus Holsinger, supt.
"	**	Gregory & Scaberg (lessees). Silver Link, silver, gold, copper. Tunnel; refractory; steam. F. O. Scaberg, supt.
**	**	The Midnight Mining Co., Sam. W. Gregory, prest, and treas.; Geo. H. Kean, seey.; P. J. Holmgrane, mgr. and supt. Cap. stk. \$300,000. Midnight, silver. Shaft, steam (developing).
	**	Milwaukee Mining Co., Milwaukee, Wis., 609 Marshall st. John A. Hinsey, prest.; O. D. Apple, secy.; John Johnston, treas.; William A. Hinsey, ngr. and supt. Cap. stk, \$1,500,000. Milwaukee, gold. Tunnel, 15,000 tons; free; water; 10 stamps.
	10	Old Dominion Mining Co., Denver, Colo., Ernest & Craumer Block. Humboldt, Sailor's Fortune, gold, silver. Shaft; refractory; steam. John McMahon, supt.
**	**	Simon Oliver and Wm. Carey. Monument, Connecting Link, gold, silver, lead. Tunnel, 25 tons; free,
44	**	Pony Express Mining Co., Colorado Springs, Colo., H.N. Tejon st., J. T. Burkholder, prest,; L. H. Skinner, seey, and treas.; G. W. Franklin, mgr, and supt. Cap, stk. \$1,000,000. Pony Express, silver. Tunnel, 1,000 tons; refractory.
	• "	Rochester Consolidated Mining & Milling Co., Rochester, New York, W. W. Sprague, prest.; W. L. Perrin, seey, and treas; 1 ra E. Ackerly, ngr. Cap. stk. \$1,000,000. U. S. Depository and Potosl, gold, silver, copper and lead. Tmmels, 6,000 tons; free; water; 10 stamps. George Robertson, supt.
		Saratoga Mining Co., St. Louis, Mo., 447 Olive st. E. C. Simmons, prest.; W. K. Spinney, seey.; G. L. Allen, trens.; L. R. Fry, mgr. Cap. stk. \$1,000,000. Saratoga, silver. Tunnel; refractory; mill. L. R. Fry, supt.
••	**	Slide Mining Co. C. M. Armstrong, prest.; George H. Kean, secy. Cap. stk. \$500,000. Slide, gold, silver. Tunnel, 2,500 tons; refractory. Charles Aspergren, supt.
Park (P. O. Alm don June	a) Ry. Lon- tion 776,	The Orphan Boy Hill Consolidated Mining Co., Alma Colo. James Moynahan, prest, and mgr.; Fremont Woodruff, sey; John M. Walker, treas. Cap. stk, \$1,000,000. Orphan Boy, Honey Comb and others, gold, sliver, iron. Tunnel; refractory; compressed air (developing). James Minhan, supt.
"	"	Thompson & Thompson, Alma, Colo. Sunny South, gold, silver, Tunnel, 10 tons; refractory, John Thompson, supt.
	. La Plata us 628 (5 m.).	J. S. D. Hopkins and others. Morovoralty, gold, silver. Tunnel, shaft; refractory; hand (developing).
Pitkin Ry. 776,	Gunnison	Ayoca Mining Co., Aspen, Colo. J. E. Freeman, prest, and mgr.; F. A. Shepard, secy.; H. W. Stormer, treas. Cap. stk. \$1,000,000. Ayoca, silver. Shaft (developing).
**	"	Blaine Mining & Milling Co., Pueblo, Colo. G.T. Nash, prest., D. W. Osgood, seey.; Charles Rufer, treas.; G. W. Griffey, ugr. and supt. Cap. stk, \$200,000. Jlm Blaine, gold, silver, lead. Shaft, tunnel; free; hand.
**		Chicago Park Mining Co., Gunnison, Colo. S. L. Moyer, prest.; J. S. Lawrence, seey.; John R. Steele, treas.; Frank W. Ferry, mgr. Cap. stk. \$1,000,000. Silver, lead. Shaft (developing).

RAILWAY	ATION OF MINE, 48, WATER ROUTES SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfut in Toss of 2001 Founds, Kind
Town	AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT,
Pitkin.	Gunnison Continued.)	Cleopafra Salver Mining Co., Chicago, Ill., 4 Sherman st. Frank Drake, prest, and gen, mgr.; Frank W., Ferry, cey.; John Cudalty, freus. Cap., stk. 82,500,000. Cleopafra, Alabama and others, gold, silver. Shaff, free; Stean, Charles Gliver, supt.
**	***	G. W. Griffey & Co. lessees). Nest Egg, silver lead. Tunnel, shaft, 30 tons; free; hand. E. T. Davis, supt.
	**	The Hindoo Mining Co., Pueblo, Colo, Central Block, Chas, R. Nicholson, prest.; Frank C. Kaye, seev, and treas.; John Liverey, mgr. Cap. stk, \$1,00,000. Little Fred, Hindoo No. 2, and Little Hindoo No. 2, gold and silver. Shaff and tunnel; refractory; hand odeveloping. A. F. Loseberg, supt.
**	**	Little Tyeon Mining Co., Burlington, Iowa, Sta Jefferson St. H. W. Chittenden, prest.: Thomas Wilkinson, seey, and treas.; G. W. Griffey, ngr. and supt. Cap. 8tk, \$100,000. Little Tyeoon, gold, silver, lead. Shaft, humel, 250 tons; horse.
••		Mono Gold & Silver Mining Co., Pittsburg, Pa. W. W. Murray, prest.; J. F. Grimes, seey.; O. E. De Costa, Ireas.; J. M. Gardner, mgr. and supt. Cap. stk. \$50,000. Gold, silver. Tunnel, placer; refrac- tory; water; 10 stamps.
**	**	The Quartz Creek Mining & Milling Co., Chleago, Ill., 173 Dearborn 81. Henry Knight, prest.; Frank W., Ferry, seeg.; Albert S. Wright, treas. Cap. 8tk, 81,000,000. No Name, gold, silver. Shaft, slope, 10,000 tore; free; steam, electricity, mill. Charles E. Wright, supl.
	**	Saeramento Consolidated Minling Co., Denver, Colo., 845 Ernest & Cramner Bidg. George C. Manly, prest., Win, R. Moore, seey, and treas. Cap. 848, 84,000,000. Saeramento, Corydon and others, gold, silver, Tunnel, shaft, 300 tons, refractory; hand.
**	4.0	The Saturn Mining Co., Aspen, Colo. J. E. Freeman, prest, and mgr., F. A. Shepard, seey.; H. W. Stormer, treas. Cap. 8tk, \$1,000,000. Saturn, silver. Shaft developing.
	44	Silver Islet Mining & Milling Co., Chicago, Ill., 4 Sherman st. Frank Drake, prest.; Miss H. A. Dean, seey.; John Cudalty, Ireas. Cap. stk, 846439. Silver Islet, Silver Nugget and others, gold, silver. Shaft, slope, L000 tons; free, steam; In stamps. James A. Preslon, supt.
**		Solltaire Minling Co., Aspen, Colo., Aspen Block, Room 12, J. E. Freeman, prest, and mgr.; F. A. Shep-ard, Seey. Drin S. Moore, frens. Cap. 8tk, 84,000,000. Maggle F. Group, silver. Shaft and tunnel developing. A. G. Ward, supr.
11	16	Statesman Mining Co., Aspen, Colo. Don C. Pollard, prest.; F. A. Shepard, seey. Cap. 8tk, \$1,000,000. Statesman, silver. Shaft developing.
Placery: Ry.	ille San Mignel 628.	H. H. Hart. Cap. \$2,000. Slide, Nonparell, gold. Shaft, drift, water, arrastre.
**		Mt. Wilson Gold & Silver Mining Co., Sonthport, Conn. E. C. Sherwood, prest.; O. T. Sherwood, seey, and treas. Cap. 8tk, 880,000. Silver Pick, gold, silver. Tunnel, 450 tons; refractory; hand. J. F. Wannemaker, mgr. and supt.
Portlane Rv. Pi	d. Ouray edmont 215.	J. W. Grewell & H. G. Burt. Anna, Blain, silver. Tunnel, hand developing),
44		James Overman, Cap. \$5,000. Cascade, silver. Shaft, 50 Ions., refractory, steam.
Poudre (P. C	City Larimer ), Home Ry, Fort Illins 776,	
Red Clit Ry.	f Hagle	Wm. Dodsworth and others. Warriors' Mark, gold, silver. Refractory developing .
	-1	Wm. A. Gay. Cap. \$25,000. Henrietta, gold, silver, lead. Tunnel and slope, free; steam.
• • •	**	Hans Harders. First National, '84, gold and silver. Retractory (developing).
**	**	Charles W. Linsley, Little May, silver, lead. Shaft, refractory; horse, hand (developing),
Rico Ry.	Dolores 628.	silver and lead. Tunnels, 360 tons, refractory, steam. T. H. Wagsenler, supt.
		Consolidated Rico Return Mining Co., Denver, Colo., P. O. Roy 1426. Julius Thomuson, prest.: W. E. Ostrander, seey.; G. R. Garrison, treas.; Douglas L. V. Browne, mgr. Cap. 8tk, 82,500,000. Gold, silver, lead. Tunnel, shaft; refractory; steam oleveloping.
	**	The Grand Duke Mining Co., St. Louis, Mo., 643 N. Third st. Louis J. Holthaus, prest., Gustavus S. Glenn, seey; J., Sildey White, tens; Joseph Meredith, mgr. and supt. Cap. stk. 8800,00. Grand Duke, Forest, Eureka and others, silver, gold, lead. Shaft, thunel, L500 tons; refractory; electricity.
	**	Haberman K Rhode, Logan, Sherman and 4 others, 12,000 tons; free; steam. Iron Dollar Silver Mining Co., Pueblo, Colo. J. F. Meek, prest; E. F. Arthur, seey.; J. J. Burns, treas., J. E. Hubbard, mgr. and supt. Cap. stk, 81,000,000. Iron Dollar, silver. Shaft; steam.
	44	Maid of Australia Mining Co. Cap. \$100,000. Maid of Australia, silver, gold, lead, iron. Shaft; refractory; steam (developing). D. M. Evans, ngr. and supt.
**		W. W. Parshall. Syndicate, gold, silver, lead. Tunnel; value output, \$85,000.
"	**	W. S. Poindexter and others. Black Demon, Sunflower, Badger, silver, gold, lead. Tunnel, shaft, refractory; steam. Albert Newton, supt.
**	4.0	Rico-Aspen Consolidated Mining Co. David H. Moffat, prest.: Eben Smith, vprest.; L. D. Peterson, seey; A. B. Roeder, treas; Donglas L. V. Browne, mgr. and supt. Cap. stk. \$5,000,000, "Aspen, Vestal, Monteguana and others, gold, silver and lead. Shaffs and tunnels, 2000 tons; steam."
		The Southern Tunnel Co. W. W. Parshall, prest, and treas.; A. T. Hathaway, seey.; John C. Clark, mgr, and supt. Cap. stk. \$200,000. No. 9, Hobo and others, silver, lead. Tunnel, 480 tons; refractory, hand.
		Mrs. M. A. Sprinkle. Last Chance, silver. Shaft, tunnel developing .
**		Swansea Gold & Silver Mining Co., Denver, Colo., 313 Mining Exchange Bidg, Charles Newman, prest, and ingr.; Win, L. Stephens, seey, and treas. Cap. 8tk, \$500,000. Swansea, Newman, Chestnut, gold, silver, lead. Tunnel, 334 tons; refractory; steam. Henry Kingender, supt.
		Unele Ned Minling Co. Peter McConor, prest.; G. B. Garrison, seey, and treas Henry Klingender, mgr. Cap. 8tk, \$1,000,000. Fifteen claims, silver and lead. Shaft and tunnel developing. E. B. Thomas, sapt.

LOCATION OF MINE,

# GOLD AND SILVER-(CONTINUED) LOCATION OF MINE, RAILWAYS, WATER ROUTES NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

AND SHIPPING POINT.	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Rico, Dolores (Continued,)	Union Carbonate Mining Co. Union Carbonate, silver, lead. Shaft, slope, 5,000 fons; steam. A. T. Hathaway, supf.
*	Wakeman & Hill. Princeton, Ethlena, silver, lead, gold. Tunnel, 1,500 tons; refractory; hand.
Ridgway Ouray Ry, 215.	Bowls & Phillips. Cap. \$5,000. Gold, silver. Tunnel; refractory; hand (developing). J. B. Frogley, supt.
** **	W. S. Tevis, Madona, Little Joe, gold, silver. Shaft; free (developing),
Robinson Summit Ry, 215, 776.	Ajax Mining Co. Frank Owens, prest.; J. F. McDonald, seey.; John McConaghy, treas, and mgr. Cap. s4k, \$50,000. Ajax, gold, silver, lead. Shaft, incline, 4,000 fons; refractory; steam. C.P. Schumaker, supt.
. "	Fred, G. Bulkley, Cap. \$150,000. Bulkley Group, silver, gold. Slope, 2,500 tons: refractory; steam. Jesse F. McDonald, supt.
4.	Champion Mining Co. Champion, silver. Shaft, slope, 150 tons; refractory; steam. J. W. Woodford, supt.
	Continental Gold & Silver Mining Co., Rockford, Ill. J. R. Linn, prest.; C. D. Williams, seey.; H. E. Wheeler, treas. Rattler, silver. Tunnel, shaft, 1,321 tons; refractory; steam. J. W. Woodford, supt.
44	Half Moon Mining Co. John McConaghy, prest, and mgr.; D. H. Gallagher, *eey.; W. M. Clark, treas. Half Moon, gold, silver, lead. Shaft, slope (developing).
**	New York Mining Co. New York, gold, silver. Shaft, slope, 5,000 tons; refractory; steam. Jesse F. Me-Donald, supt.
**	Robinson Consolidated Mining Co., New York, N. V., 45 Broadway. John Jay White, prest.; F. C. Poucher, seey, and treas. Jesse F. McDonald, mgr. and supt. Cap. stk. \$0,000,000. Robinson, silver, gold. Shaft, tunnel, slope, 5,000 tons; refractory; steam.
	Sunshine Consolidated Gold & Silver Mining Co., Des Moines, In. L. A. Wilkinson, prest.; Will Toneseey; J. M. Shuck, treas. Cap. 8tk, \$500,000. Sunshine, gold, silver, lead. Shaft, 10 tons: refractory: steam developing.
	Woodford Bros. & Co., Denver, Colo., Mining Exchange Bldg. F. C. Peck, prest.; ——Blybell, seey.; H. C. Frost, treas.; Woodford Bros., mgrs. Cap. stk, \$500,000. Diamond B, silver. Slope; shaft, 30 tons; refractory; steam (developing). Walter C, Snith, supt.
Rockwood La Plata Ry, 215.	John W. Morse, Durango, Colo. Red Point, silver. Shaft (developing).
	C. V. Brinkenhoff & L. W. Lansing, Cap. \$10,000. Dirigo, Ahua, Mia, gold, Tunnel, shaft; refractory (developing).
	Rollin Gold and Silver Mining & Milling Co. Cap. stk. \$5,000,000; indv. cap. \$200,000. Perigo, Gold Dirt and others, gold, silver, lead, copper. Shaft, tunnel; refractory, free; steam, water; 25 stamps.
20 55	Victoria Gold & Silver Mining & Milling Co., Denver, Colo., 17 Jacobson Block, Frank H. Levering, prest.; C. V. Mead, seey.; W. S. Estey, treas.; P. Peterson, mgr, and supt. Cap. stk, §200,000. Victoria, gold. Shaft, 4,500 tons; free; steam; 15 stamps.
Romley Chaffee Ry, 776.	Mary Murphy Mining Co., St. Louis, Mo., 40c Elm St. W. R. Donaldson, prest.; J. W. Wallace, seey, and treas. Cap. 8tk, \$80,000. Mary Marphy, gold, sliver, copper. Tunnel, shaft, 27,000 tons; refractory: compressed air, milk concentrators. J. H. Seek, mgr, and supt.
Russell Gulch	Topeka Mining Co., Chicago, Ill., 40 Chamber of Commerce. Percy C. Hamilton, prest, and treas.; William Phelps, seey.; Henry P. Lowe, ngr., and supt. Cap. stk. \$1,000,000. Topeka Extension, gold. Shaft, Edono tons; free, refractory; steam.
Saguache, Saguache Ry, Del Norte 215 (24 miles).	J. S. Sanderson. Fulton, gold, silver. Shaft, 480 tons; horse,
St. Elmo Chaffee Ry, 776.	Pat Murphy Gold Mining Co., St. Louis, Mo., 308 N. Main st. Cap. stk. \$3,000,000. Iron Chest, gold. silver. Shaft, humel, isoloo tons; refractory, free; steam, water, horse; mill, concentrator, Joseph Holtschneider, ngr, and supt.
	Pawnee Mining & Milling Co. George Warren, prest.; Henry Brown, secy.; John McBride, treas. Cap. stk. \$10,000. Lady Murphy, Mollie, Pioneer, gold, silver, lead. Tunnel, 6,000 tons; free; steam, compressed air; 20 stamps. Henry Brown, supt.
0	Byron E, Shear & S. L. Johnson, Denver, Colo., 728 Sixteenth st. S. L. Johnson, mgr. Tressa C., gold, silver and copper. Shaft and tunnel, 1,000 tons; free; steam. N. S. Bullock, supt.
**	Valcourt & Blonchoreo, Cap. \$25,000. Gold Field, gold, silver. Shaft, 3,000 tops; refractory, free; horse. A, Blonchoreo, supt.
Salida Chaffee Ry, Gold Hill 776.	Victoria Mining & Milling Co., Denyer., Colo. Ernest & Crammer Block, Room 80. Wm. Brooks, prest.; O.T. Avery, seey; E. W. Aysbright, tersa; R. K. Thayer, mgr. Cap. 8tk, \$500,000. Victoria, gold and silver. Shafts, 350 tons; refractory; steam.
Sharpsdale	Blake & Little, Silver Cliff, Colo. Cap. \$3,000. Niagara, gold, silver, lead. Tunnel, 100 tons; refractory; hand. D. C. Blake, supt.
n w	McIntire Bros. & Mack. Deadwood, gold, silver, lead. Tunnel; free (developing).
Sherman . Hinsdale P. O. and Ry. Lake City 215.	Black Wonder Gold & Silver Mining Co., Boston, Mass., 244 Washington st. Hon, Mr. Watterman, prest.; Mr. Stark, seey.; J. Henry Allen, freas; E. C. Davis, ngr. Cap., 8tk, \$1000,000. Black Wonder, gold, silver. Shaft, tunnel, drift; refractory (developing). Abel A. Allen, supt.
Silver Cliff Custer Ry, Cotopaxi 215,	Good Hope Mining Co., Washington, D.C., cor. Ninth and F.sts. C.C. Clements, prest.: Paul R. Van Mater, seey: Frank S. Williams, treas. Cap. stk, \$50,000. Good Hope, silver, lead. Shaft, level; free; horse; steam (developing).

T. W. Grasser. Augustus, silver, lead. Shaft (developing).

E. J. Haskell. Racine Boy. Hudson, Jay Gould, gold, silver, lead. Open pit, shaft: refractory; steam; 40 stamps.

	COMP AND MENTER COMMENT
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Suffrintendent,
TOWN AND COUNTY.	
Silver Cliff., Custer $(Continued_i)$	A. H. Henning, Aug. Koppe & E. Burkhardt. Troy, silver. Shaft; refractory; hand.
" "	Samuel C. Hunsaker, Black, gold, silver, Tunnel; free; hand (developing),
**	International Mining Co., Pueblo, Colo., Rooms, 132 and 133 Central Block. O. A. Derby, prest.; R. A. Crossman, seev.; John H. Voorthees, trens.; J. W. Williams, mgr. Cap. stk. \$500,000. International, gold, silver. Shaff; free; steam, O. A. Derby, supt.
	S. F. Jordon. Powhattan, gold, silver, lead. Refractory; hand.
	J. R. Thomas and others, Lewella, silver, copper. Shatt; 3 stamps,
Silver Mtn . Huerfano P. O. and Ry. La Veta 245 (8 miles).	F. E. Collier and others, La Veta, Colo. Cap. \$80,000. Trenton, Vankee Girl and others, silver, gold, Tunnel, shaft, 250 tons; free, F. E. Collier, supt.
	A. B. Morse & W. H. Clifford. Edith M., silver. Shaft (developing). A. B. Morse, supt.
**	Martin, Reed & Co. Cap. stk. \$25,000. Wonderful, gold, silver. Shaft, tunnel: refractory; horse, hand. Frank Martin, supt.
	Rocky Mountain Mining & Development Co., Pueblo, Colo., 106 West Third St. H. W. Young, prest, and nigr.; Geo. W. Gephart, seey.; A. V. Bradford, treas. Cap. 8tk. \$1,000,000. New York, Chicago, silver. Shaft oleveloping.
Silver Phune - Clear Creek Ry, 776.	Battimore Mining & Milling Co., Denver, Colo., 1316 Eighteenth st. John Fillius, prest, and mgr.; William H. Emannel, seey, and treas. (ap. stk. \$500,000, Baltimore, silver, lead. Tunnel, shaft; steam, George Meyers, supt.
	R. Orchard Old, Georgetown, Colo. Cap. \$100,000. Mendota, Fulton, sllver, lead. Shaft, tunnel, t.596 tons; free. F. G. Chapman, supt.
	Pay Rock Silver Mines, Ltd., London, England. Thomas Hicks, prest.; J. B. Palmer, treas. Cap. stk. \$1,00,000. Pay Rock, Silver Plune, Silver. Tunnel, shaft, 1,500 tons; refractory; compressed air; concentrator. John M. S. Egan, mgr. and supt.
**	Silver Plume Consolidated Muning Co., Lincoln, Neb., 1231-0-8t. Robert N. Wharton, prest.; John Gillespie, Secy.; T. C. Kern, treas. Cap. stk. \$350,000. Silver Plume, silver and lead. Tunnel developings.
Silverton San Juan Ry, 215,	Animas River Mining Co., Milwaukee, Wis., 4 Metropolitan Block. Cap. stk. \$500,009. Jess and Mamie, gold, sliver, lead and copper. Tunnel, free, water developing.
	Bandora Mining & Milling Co., Colorado Sprlings, Colo., 109 E. Klowa St. P. L. Martin, prest.; W. M. Harriott, seey.; C. E. Noble, treas., H. H. Daniels, mgr. and supt. Cap. 8tk, \$2,000,000, Bandora, silver and gold. Tunnel, 200 Ions, refractory; steam.
	A. R. Briggs, Brooklyn, N. V., 95 Linwood st. Briggs, gold, sliver and lead. Drift, shaft, refractory; concentrator, J. E. Briggs, supt.
	C. & I. C. Gold & Silver Mining Co., Denver, Colo., 473 Curtis st. Edward F. Lamb, prest, and mgr.; R. G. Hillen, seey.; F. D. Taylor, treas. Cap. stk. \$200,000. Gold, silver and lead. Shaff, tunnel, 2,000 tons; free and refractory; steam. E. F. Lamb, supt.
	Kendall Mount Gold & Silver Mining Co. James E. Curtis, prest.; Samuel E. Laird, seey, and treas.; Thomas H. Kane, mgr. Cap. stk. \$500000. Titusvile, gold and silver. Tunnel, 45,000 tons; refractory; water, steam; Is stamps. W. J. Kane, supt.
**	San Juan Mining & Milling Co., New York, N. V., 65 Fulton st. W. Shepard Estey, prest, and treas.; Win, O. Chapman, seey.; J. E. Briggs, mgr, and supt. Cap. stk, \$50,0000. New York, gold, silver and lead. Drift, shaft, 1,000 tons; free, refraetory; water: concentrator.
44	Twin Metals Mining & Milling Co., Pueblo, Colo., 226 S. Union av. E. L. Wood, prest.: Otis Remick, seey.; H. M. Ward, treas, and mgr. Cap. stk. 82,500,000. Twin Medals, gold and silver. Tunnel: free and refractory steam developing.
South Creede, Rio Grande (P.O.Amethyst) Ry.215.	Marguerite Mining Co. M. A. Duvstad, prest.; Jas. McNamara, secy.; Thomas Harlings, mgr. Cap. stk. \$10,000. Marguerite, sliver. Shaft, 300 fons; hand (developing).
Stunner , Conejos Ry, Alamosa 215.	Eurydee Miring Co., Denver, Colo., cer. Seventeenth and Champa 818., Ernest & Cranmer Block, Malcolia Anderson, prest, and seep, Col. H. C. Anderson, treas. Cap. 848, 81,00,000. Eurydice, Louisa, gold and silver. Shaft, tunnel, 1,000 tons; refract vy; steam, J. O. Dimmick, sppf.
Sugar Loaf Boulder Ry, 776.	Baldwin & Coins. Boomerang, Euclid, Jasper, gold and sliver. Shaft, tunnel, 50 tons; free, refractory; hand, S. S. Baldwin, supt.
	Beach & Pate. Silver Eagle, silver and copper. Shaft, slope; refractory; horse (developing). W. L. Beach, supt.
	Geo, H. Chick, Pittsburg, Kan. Cap. \$100,000, Tambourine, gold and silver. Tunnel, 500 tons; refractory; hand. Geo, H. Thompson, supt.
	Norman Mills & W. E. Ayers. Gold Flsh, North Wind, gold and silver (developing). Norman W. Mills, supt.
	Phillips & Wood, Boulder, Colo. Phillips, Summit, New Era, gold and silver. Tunnel, shaft; refract ry (developing). G. P. Wood, supt.
Sunset Boulder Ry, 776.	Free Coinage Mining & Milling Co., Denver, Colo., 3i Masonic Temple, A. J. Severance, prest, treas, and mgr.; B. A. Ambler, seey. Cap. stk. \$250,000. Free Coinage, gold and sliver. Tunnel, 2,00 tons; free; refractory; hand; do stumps. J. E. Severance, supt.
SunshineBoulder Ry. Boulder 776,	Exodus Mining Co., East Llyerpool, Ohio, P. O. Box 628. F. H. Croxall, prest.; Geo. B. Harvey, secy.; Chas. E. Macrum, treas.; Jas. W. Kerr, mgr. Exodus, gold and silver. Shaft, tunnel developing.
" "	Minnie Belle Mining Co., Denver, Colo., 1542 Market st. C. C. Bendell, prest.; F. W. Henningsen, seey, and treas.; John Fuller, ngr. and supt. Minnie Belle, silver and gold. Shaft, not lons; retractory, horse.

C.H. Pate, Cap, \$10,000. Lucell, Excelsior, gold. Shaft, tunnet; refractory; horse, hand oleveloping.
White Crow Gold Mining Co., Colorado Springs, Colo. F. L. Martin, prest.; W. Culver, seey.; W. Burgess, treas.; W. J. Williams, mgr, and supt. Cap, stk, \$250,000. White Crow, gold. Shaft, 300 tons; refractory; steam; concentrator.

RAILWAY	s, Wat	P MINE, ER ROUTES G POINT.	I'AME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, AND NAME OF MINE SERVE USED, STRAM MILLS, ETC., AND NAME OF MINE SUPPRINCEMENT.
Town	AND	COUNTY.	OF TOWER COED, STAMP MIDDO, EIG., AND NAME OF MINE SUPERINTENDENT.
Sweet He (P, 0) Fal	ome ,6 ), Dui 1 Rive	'lear Creek nont) Ry. r 215.	F. E. Platt & Ed. Bowden, Dumont, Colo. Cap. \$10,000. Left Hand, Eagle Bird, gold. Tunnel, 100 tons: free; water; 15 stamps.
		San Miguel	
		**	Bates & McEwen. Hidden Treasure, gold, silver. Tunnel; free; hand (developing).
"		**	Belmoot Consolidated Mining Co., Shanghai, China. A. J. Howe, prest.; Drysdale, Ringer & Co., seey, and treas.; J. A. R. Waters, mgr. Cap. stk. \$350,000. Belmont, Tom Boy, gold. Tunnel, 12,000 tons; free; water, electricity; mill. J. S. Higgs, supt.
** .		**	Black Bear Mining Co. Andrew Werroner, prest, and mgr.; Zach Anderson, secy.; Fred Krongvist, treas. Cap. stk. \$00,000. Black Bear, White Bear, gold, silver, lead, Tunnel; hand (developing). Andrew Werroner, supt.
**		**	Bohemia Mining Co. Bohemia, gold, silver. Shaft, tunnel, 200 tons; refractory; free.
		4.6	Bradley Mining Co. B. F. Lohmes, prest.; 4, L. Osborne, seey, and freas.; T. J. Wilkinson, mgr. Bradley, gold and silver. Tunnel, 1,000 fons; refractory; water; mill. J. B. Mitter, supt.
**		**	La Junta Mining Co. E. E. Runkle, prest, and mgr.; E. B. Weller, seey, and freas. La Junta, gold. Tunnel; refractory; free; wafer; mill. E. E. Runkle, supt.
		16	Lohnes, Miller & Osboro. Bradley, gold, silver, lead. Tunnel, 400 tons; refractory; hand. B. F. Lohnes, supt.
		"	John H. Mitchell. Cap. \$300,000. Silver Glade, silver. Tunnel, shaft; free and refractory; hand,
		**	Nellie Mining Co. T. A. Davis, prest, and mgr.; O. N. Davis, seey.; E. L. Davis, treas. Cap. stk. \$500,000, Nellie, Ella, gold, silver. Tunnel; free. Gus Anderson, supt.
		**	San Miguel Consolidated Gold Mining Co. Benjamin F. Butler, prest.; Elston Hoyt, secy.; Wm. F. Reed, trens.; L. L. Nunn, ngr. Cap. stk. \$10,000,000. Gold. Shafts and tunnels; free; electricity; 100 stamps. E. H. Teats, supt.
**		**	Sheridan Consolidated Mining & Milling Co., Ltd., Shanghai, China. G. James Morrison, prest.; Drysdale, Ringer & Co., seey, and treas.; J. H. Ernest Waters, gen, mgr. Cap. stk. \$2,000,000. Sheridan, Mendota, gold, silver. Shaft, Innuel, 22,000 tons; free, refractory; steam, electricity, water; 40 stamps; concentrator. Samuel Treais, supt.
**		41	The Smuggler-Union Mining Co., Denver, Colo., 894 Boston Bldg. J. A. Porter, prest.; A. H. Fowler, secy, and trens.; N. T. Mansfield, mgr. Cap. sik, 85,000,000. Smuggler-Union, gold and silver. Shaft, tunnel, 25,000 toos; refractory; steam; 10 stamps. Richard Trezise, supt.
Thomasy Ry, 26		Pitkin	Frying Pan Mining & Milling Co., Denver, Colo. Geo. J. Boal, prest. Cap. stk. \$500,000. Bessie, silver, lead. Shaft; refractory; steam (developing). W. E. Newberry, supt,
**		**	McKinley Mining Co., Colorado Springs, Colo., Bank Bldg. Franc O, Wood, prest, and mgr.; Frank White, seey, and treas. Cap. stk. \$600,000. McKinley and Tariff Lodes, silver. Shaft (developing).
Tin Cup. Ry. St	. Elm	. Gunnison o 776 (9 m.).	Broken Hill Mining & Milling Co., Denver, Colo., 728 Sixteenth st. 4, L. Johnson, prest.; James W. Forrest, seey, and treas. Cap. stk. \$1,000,000. Broken Hill, gold, silver. Tunnel (developing).
		**	Forest Hill Mining & Milling Co. W. W. Wall, prest.: Laurance Winshermer, seev.; C. A. Fredericks, treas.; E. A. Ackerson, mgr. and supt. Cap. stk. \$1,000,000. St. Crispin, gold. Shaft, 5,000 tons; free; water; 69 stamps.
••		**	Gee Zee Mining Co., St. Louis, Mo., 506 Olive st. Solon N. Sapp, prest.; W. P. Hawley, seey.; L. E. Roberts, treas. Cap. stk. \$2,000,000. Gee Zee, silver, lead. Shaft; retractory; horse, James I. Perkins, supt.
**		"	Gold Cup Mining Co., Denver, Colo., Equitable Bldg. A. E. Reynolds, prest.; C. F. McKenney, secy.; A. Snedaker, mgr. Cap, 8tk, \$5,000,000. Gold Cup, gold, silver. Shaft; refractory; steam and compressed air.
		**	John Hines. Maid of Erin, gold, silver. Shaft; free; hand (developing).
		**	Lewis & McCormick. Wahl-McCormick Group, gold and manganese (developing); free.
**		**	Thomas H. Mastin & E. A. Hill. Queen of the West, silver, lead, iron. Shaft, tunnel; refractory; hand, E. A. Hill, supt.
**		**	Jerome Noakes. Big Chief, silver, lead. Tunnel, shaft, 300 tons; free; hand.
Tomichi Ry, Si	reant	. Gunnison	C. F. Wahl. Wahl, gold. Tunnel, 50 fons; free; hand. Thomas W. Berry. Cap. \$5,000. Treasure Vault, Copperite, gold, silver, lead. Shaft, 5 tons; refractory; hand (developing).
	ngen	11	Magna Charta Silver Mining & Tannel Co., Cleveland, Ohio, 50 Euclid ay. E. J. Farmer, prest, and mgr.; James Eng. Farmer, seey.; John N. Stockwell, treas. Cap. stk. \$2,500,000. Magna Charta, gold, silver, lead and copper. Tunnel, 30,000 tons; steam, water and electricity; concentrating mill. O. H. Aikins, supt.
		**	Ohio & Colorado Mining Co., 204 Superior st. A. Teachout, prest;; J. Nesbit Wilson, secy, and mgr.; James A. Anderson, treas. Cap. stk, \$2,500,000. Grey Copper, Little Minnie, Topeka and others, gold, silver, lead. Tunnel; refractory; stemm developing).
Trout Lal Ry, Sa	ke: m Be	San Miguel rnardo 215,	San Bernardo Silver Mines, Ltd. Percy W. Thomas, prest.; Alfred E. Wesley, seey.; Francis A. Vonillon, treas. Cap. sik. \$750,000. San Bernardo, silver, lead. Tunnel, 5,000 tons; refractory; water, electricity; concentrator, J. W. Mason, ingr. and supt.
		4.6	Wm. M. Tucker, St. Louis, Mo., 519 Pine st. Clara, silver and lead. Tunnel, 51 tons; refractory; hand.
Twin Lak Ry. G nuile	ranite	Lake 26, 215, 18	J. S. Booco. Cap, \$50,000. Sherman, Cleveland, gold, silver. Thuncl, 100 fons; refractory; hand,
*1		14	Cornelius Bros. Lincoln, Blaine, gold, silver, bismuth. Tunnel; refractory; hand (developing),

Cornelius Bros. Lincoln, Blaine, gold, silver, bismuth. Tunnel; refractory; hand (developing). Warren Cutler & S. H. Leister. Cap. 88,000. Betsy S., Solid Coln, gold, silver, Tunnel, 140 tons; refractory and free; horse, S. H. Leister, supt.

# THE MINING DIRECTORY—MINES. BRITISH COLUMBETT

## GOLD AND SILVER -(CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLE, FIC., AND NAME OF MINE SUPPLEMINEMENT.
TOWN AND COUNTY.	
Twin Lakes Lake (Continued.)	John W. Dixon & Son. Wanamaker, Little Joe, gold, silver. Tunnel, shaft; free; hand. Charles H. Houser, supt. Nine miles to railway.
" . "	Fall River & Colorado Mining & Milling Co., Fall River, Mass. H. Francis Lawton, prest.: C. A. Bugber, seey.: Geo, T. Durfee, treas.: Ambrose M. Thomas, mgr., and supt. Cap. stk. \$1,000,000. Thistle, Goldsmith and others, gold, silver. Shaft, tumel, open pit; free; water; ito stamps.
**	G. B. Garland & H. N. Garland, O. K., Portland, silver, lead. Tunnel; refractory (developing).
**	Gold Bag Mining & Milling Co., Aspen, Colo. Frank S, Rice, prest.; C. A. McBriarty, seey.; Geo. Rust, treas.; Ed. C. Rice, mgr. Cap. 8th, 8750,000. Gold Bag, gold. Tunnel, slope, 1,300 tons, refractory and free: hand. Win. P. Rendine, supt.
" "	Harlan & Co. Kearsage, Comstock, Free Coinage, gold. Tunnel, shaft; free; water developing.
**	Thos, Henneberry, Sunset, Little May, Black Venus, silver, gold, lead, Shaft, finnel; refractory; water,
**	Win, Her. Cap. \$75,000. Mount Elber, Ontario, gold. Tunnel, shaft; refractory developing.
**	John McDonald. Mountain Boy, silver. Tunnel, 50 tons; refractory; hand. Twenty miles to railway.
45	Mf. Elbert Mining & Milling Co., Denver, Colo., 321 Ernest & Cramner Block. James Leonard, prest.; E. C. Gliman, seev.; A. H. Webert, trens., C. A. MeBriartty, ingr. Cap. 83k, 84,000,000. Gordon, Beingal Tiger, gold. Tunnel, 3,000 tons; free; water, steam; 10 stamps. Joseph Haft, sup.
	M. R. Mining & Milling Co., Galesburg, Ill. Miron Rhodes, prest.; J. H. Calklus, seey.; R. T. Davis, treas. Cap. 8tk, \$90,000. Gold and silver. Five stamps.
	Silverthorn Tunnel Co., Leadville, Colo., P. O. Building. Dr. L. L. Silverthorn, prest, and treas.; N. Rolins, seey.; I. R. Shaver, mgr. and supt. Cap. 8tk, \$1,000,000. Yankee Girl, Emma and others. Tunnel; refractory, free; hand developing.
	Staggs, Quaintance & McDermot. Confidence, Ballarat, Great Casar, War Eagle, gold and silver. Shaft, tunnel, slope tree, hand (developing). L. H. Staggs, supt.
Virginius Ouray Ry, Ouray 245 (45 m.).	Old Dominion Mining Co., Denver, Colo., J. B. Pace, prest., J. B. Farish, mgr., Cap. stk. \$500,000. Humboldt, Sallor's Fortune, sliver. Shaft, tunnel, 4,000 fons; free; steam. John McMahon, supt.
Wagon Wheel Gap, Rio Grande Ry, 215.	Electric Mining & Milling Co., Denver, Colo., John Fremont St., Theron W., Johnson, prest.; William D., Nash, seey., Clanuccy Hale, treas; William B., Farrington, mgr., Cap. 8tk, 820,000. Electric, gold and silver. Shaft, tunnel; hand oleveloping). C. R. Waters, supt.
	Ribler Haggard Minling Co. Frank E. Page, prest.; Bela I. Lorat, seev., Joseph P. Hanna, treas., F. W. Mallory, mgr. Cap. stk. \$100,000. Ribler Haggard, Zulu, She. He, silver. Tunnel, shaft, slope; retractory; horse, hand developing.
Ward District Boulder Ry, Sunset 776/4 m.s.	Fred L. Ames, Boston, Mass. New Market, gold and silver. Shaft: free, steam.
**	Bestes Milling & Mining Co., Boulder, Colo. W. L. Bates, prest, and Ingr.: O. W. Stone, seey, and treas, Cap. stk. 8700,000. Baxter, gold. Shaft, free; 40 stamps. L. R. Stearns, supt.
	John T. Duncan. Dew Drop, gold, silver and copper. Tunnel, shaft, 300 tons, free, steam.
**	Edward Harrigan. Ruby, gold and silver. Shaft, tunnel, 300 tons; free, 40 stamps,
	Hullings & Co. Cap. \$90,000. Columbia, gold and silver. Shaft, 1,000 tons, refractory; steam; 5 stamps, W. W. Hullings, supt.
	Madeleim Consolidated Minling & Milling (a), New York, N. V., 31 Nassan 8t. Wafter M. Smith, presh; Charles H. Wright, seey, and treas, E. Kenyon, mgr. and supt. Cap. 8tk, 8750,000. Madeleine, gold, silver and copper. Shaft, 10,000 tons; refractory, steam; 100 Stamps.
	R. Z. Mason, Cap, 83,000. Park, Powhattan, Grant, gold and silver. Shaft, 800 tons, free, steam,
•	Puzzler Gold Mining & Milling Co., Boulder, Colo. R. A. Duncan, prest, and mgr., Charles H. Wise, seey, and treas. Cap. 8tk, \$500,000. Puzzler, gold. Shaft, tunnel, free, steam; Iostamps. R. A. Duncan, 8tpl.
	John Seba, Celestial, gold. Shaft, free, steam 'developing', J.C. Boyd, supt.
	Utica Mining & Milling Co., Philadelphia, Pa., 668 Chestaut St., R. H. Kline, M. D., prest.; J. Quincy Hunsicker, seey., Jos. K. Davison, treas. Cap. stk. 8150,000. Utica, gold. Shatt, 10,000 fons. free; refrae fory; 30 stamps. John S. Reid, supt.
	H. J. White. Pennsylvania, gold. Tunnel; free.
	Wirth & Hulings. Morning Star Extension, gold and silver. Shaft, 15 tons: refractory, steam. J. G. Wirth, supt.
Westelille Custer Ry, Cotopaxi 215.	Tompkins & Co., treas. Cap. stk. \$100,000. Bull Domingo, silver and lead. Shaft, 2,000 tons; free: steam. W. H. Rains, supt.
White Cross Hinsdale Ry,Lake City 215 (22 m.).	Bou Homme Mining Co., New Orleans, La., 34 and 36 84 Charles 84. J. T. Azcock, prest.; John Glynn jr., seey.; Frank Emmett, treas., J. F. Steinbeck, mgr, and supt. Cap. 8tk, 81303000. Bon Homme, Pelican and others, gold, silver, copper. Shaft, tunnel, refractory.
	Robert Kissock, Cap. \$10,000. Bald Eagle Mine, gold, silver. Shaft, 50 tons, refractory; horse,
**	White Cross Mining & Milling Co. Geo. W. M. Hall, prest., H. T. Ripley, seey, and treas.; M. T. Child, ngr. Cap. 84k, \$200,000. Hlinois Boy, silver. Shaft, funnel.
ny, Sargents 215 (12 m.).	F. P. Bonnell, Superior, Neb. Silver Cord, gold, silver, copper, lead. Shaft; refractory, steam developing .
	Denver City Consolidated Mining Co., Pueblo, Colo., 323 Santa Fe av. C. L. Wall, prest.: Fredk, Rohren, seey, and treas; Ward A. Hinckley, mgr. and supt. Cap. 8tk, \$500,000. Denver City, silver, gold, lead. Tunnel, shaft, Loot tons; steam.
	Matchless Muning Co. S. Mathews, prest., L. Ely, seey.; T. V. Whitelaw, treas., V. K. Porter, mgr. Cap. \$15,000. Matchless, silver, lead. Shaft: steam (developing).
**	Nash & Edgworth. Cap. \$50,000. Rochester, silver and lead. Tunnel, shatt, 60 tons: hand.

#### GOLD AND SILVER -(CONTINUED).

LOCATION OF MINE. RAILWAYS. WATER ROUTES AND SHIPPING POINT. AND

COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

White Pine (Continued,)

...Gunnison Porter & Pearce. Cap. \$10,500. Monitor, lead, silver, 200 tons; free; steam,

Dick Tullar. Lilley, silver. Shaft, drift, slope, 150 tons; steam. Woodland Park, .El Paso Quaker Girl Milling & Mining Co. A. B. Hackman, prest.; Geo. I. Bentley, secy.; John Ansfield, treas.; Ry. 26. II. D. Hackman, mgr. Cap. stk. \$1,000,000. Quaker Girl, gold, silver. Shaft; free; hand (developing).

Woodland Park Mining Co. A. B. Hackman, prest.; Geo, I. Bentley, Secy.; N. W. Terrill, treas. Letta. gold, silver. Shaft; hand (developing). M. M. Baldwin, supt.

## GYPSUM

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Loveland

Larimer A. Wild. Cap. \$40,000. Gypsum. Open, pit, 6,000 tons; steam, water,

Ry. 776. Pueblo Rv. 26, 215, 420, 776.

Pueblo Pueblo Cement-Plaster Co., 102 W. C. st. Geo. Holmes, prest.; J. C. Utter, seey.; Geo. F. Harpster, treas.;
 A. C. Daniels, mgr. Cap. stk. \$0,000. Salt Creek, gypsum. Open, pit, 20,000 tons: steam; cement mill, 20,000 tons. R. H. Randall, supt.

#### IRON

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT AND

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Chaffee (P. O. Salida) Ry, 215.

Town

Colorado Coal & Iron Co., Pueblo, Colo., B.st. Edward J. Berwind, prest.; Thos. E. H. Curtis, secy, and treas; E. M. Steck, gen. ngr. Cap. stk. \$10,000,000. Calumet Mine. Tunnel, 50,000 tons; green mag-netic; steam; 3 furnaces. T. B. Buller, supt.

Colorado City Jamestown Boulder

El Paso The Ute Pass Paint Co. Ward Hunt, prest.; J. B. Glasser, seey.; M. J. Myers Smith, treas.; B. C. Hubbell, mgr. Cap. stk. \$150,000. Red Ruby, red oxide. Shaff, tunnel (developing). W. B. Clemens. Argo, lead, iron. Shaft, 50 tons; refractory; horse,

Ry. Boulder 776 (14 m.), Lyons 88 (10 m.). Leadville Ry. 26, 215, 776.

Lake Breece Mining Co., New York City, 115 Broadway. Chas. A. Rogers, prest.; Henry Bradstreet, seey, and treas.; J. H. Fletcher, mgr. and supt. Cap. stk, \$5,000,000. Ben Franklin, Win. Penn, Philadelphia, red hematite. Shaft, open.

Orient Saguache (P, O, Villa Grove) Ry.

Saguache Colorado Coal & Iron Co., Pueblo, Colo., B. st. Edward J. Berwind, prest.; Thos, E. H. Curtis, secy, and treas; E. M. Steck, gen. mgr. Cap. stk, \$10,000,000. Orient Mine. Tunnel, 50,000 tons; red hematite; steam; furnaces. T. B. Buther, sup.

### KAOLIN.

Location of Mine or Bank, Railways, Water Routes, and Shipping Point. Town COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

New Castle Ry. 26, 215 Silver Cliff. t'uster Ry, Cotopaxi, 215,

Garfield New Castle Kaolin Mining & Manufacturing Co. P. C. Coryel, prest, and mgr.; Max L. Shayer, secy.; J. W. Ross, treas. Cap. stk. \$50,000. Kaolin Lode. Tunnel; steam. P. C. Coryel, supt.

W. G. Washington, Washington, kaolin. Open; 900 tons.

#### LEAD AND ZINC

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Town COUNTY. AND

Robinson

Summit Pohl & Co. Homestake, galena. Shaft, drift; steam. Ry. 215, 776.

Silver Cliff Ry. Cotopaxi 215.

Custer Faske Bros, Susan Jane, galena, lead. Tunnel; hand (developing). August Faske, supt

Town

### MICA.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK Name of Mine, Kind of Product, Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

AND Boulder Ry. 776.

COUNTY

Boulder Mica Monarch Mining Co., Denver, Colo., 4025 Seventeenth St. W. Geo, N. Brown, prest.; C. H. Emmons, seey, and treas. Cap. stk. \$250,000. Mica Monarch, mica. Tunnel and drifts.

#### PLATINUM.

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER Used, and Name of Mine Superintendent.

Argentum O.White Cross) Ry. Lake City 215.

Hinsdale M. E. Holland & J. H. Brown, White Cross, Colo. Dexter, platinum, tin, nickel. Tunnel, 10,000 tons

#### STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point. TOWN

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, SAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TORS OF 2.00 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILSS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Fremont (P. O. Canon City) Ry. 215.

The Colorado Alabaster Co. Denyer, Colo. H. C. Russell, prest.; John D. Brownlee, seey., treas, and mgr. Cap. 8tk. \$200,000. Parlam, Ute Park, Chit, Summit. Tunnel, open pit; hand, horse. Chas, Buchanan, sint.

Beaver Creek

Fremont Thos. Kelso. Thompson, linic. Open; hand,

Boulder Ry, 776,

Boulder Struthers & Smith. Gen. Canon, red sandstone. Hand, horse; mill, sootons

Chatte Book

Donglas John Anderson, Denver, Colo., 4510 Seventeenth st. Cap. \$50,000. Palmer, lava building stone. Open, 3,800 tons; hand, Chas, Westman, supt.

Castle Rock Stone Co. Denyer, Colo., 646 Arapahoe St. J. Thomas, prest,; S. T. Hathaway, mgr. and supt. Cap. stk. \$20,000. Laya stone, white, pink. 35,000 tons. The Douglass Lava Co., Colorado Springs, Colo., Gazette Bildg. P. W. O'Brien, prest, and mgr., T. J. Fisher, seey, and treas. Cap. stk. \$0,000. O'Brien, Palmer, lava. Open put; slope. W. F. Sharp, supt.

De Beque : Rv. 215.

Mesa De Bequé Mining Co., John Moore, prest, and mgr., W. J. Moore, secy, and treas. Cap. stk. \$10,000. The Beque, sandstone. Steam, 40,000 tons. John Moore, supt.

Delta J. A. Beatty. Cap. \$3,500. Red sandstone. Open, 500 tons; horse; hand

Ry. 215. Fort Collins, Ry, 776.

Larimer The American Red Stone Co., Chicago, Ill., 1119 Chamber of Commerce, J. S. F. Batchin, prest, and mgr., C.S. Johnson, seey, and treas. Cap. 8tk, \$150,000, Pleasant Valley, red sandstone. Slope, 25,000 tons; steam. E. L. Johnson, supt.

Garfield Chaftee (P. O. Monarch) Rv. 215.

Harry L. Acker, Monarch, Colo. Cap. \$30,000. Faint Hope, Napoleon 111, Josephine, marble and limestone. Tunnel, shaft; horse, hand, 4,759 tons; limekilm, 5,000 tons.

Commison

Gunnison Geddis & Seerie, Denver, Colo., Seventh and Market sts. South Park, Aberdeen, granite. Steam, C. T. Sills, Gunnison, Colo., cor. Virginia av. and Wisconsin st. Uap, 85,000. White Wood, limestone.

Lyons Ry, 26.

Slope, 3,000 tons; hand Roulder Pullium, Dewey & Co. E. L. Pullium, prest., M. C. Dewey, seey.; S. Dewey, treas. Cap. stk. \$20,000. Fair View, flagging. Open, hand, 630 tons. E. L. Pullium, supt.

Marble . Rv. 26, 215.

Gunnison Evans Williams. Colored Marble, Silver Queen, slate, marble,

Marble City Quarry Co., Philadelphia, Pa., 991 Arch st. R. H. Kline, prest., A. P. Douglas, seey., Kline, freas., A. J. Mitchell, mgr. Cap. stk. \$5,000,000, Marble. Open, shaft, tunnel; electricity

Miller Creek . Pitkii (P. O. Thomasville) Ry Pitkin 26.

The Miller Creek Land & Lime Co. Edward F. Browne, prest.; E. R. Beard, seey, and treas.; A. A. Beard, gen. ingr. Cap. 4tk. \$200,000. Miller Creek, limestone. Open, 30,000 tons; gravity trainway; lime-kili, Econol tons. F. F. Reiner, supt.

Rv. 26. Platte Canon

Eagle The Peachblow Sandstone Co., Denver, Colo., 644 Boston Eldg. W. B. Devereux, prest., S. M. Mumby, mgr. Cap. 84k, \$100,000. Red sandstone. Steam; mill. Jefferson, M. H. Blodgett Jocab. Elmestone. Shaft, limekiln, 200 tons.

Ry, 776.

Carl Bruchne. Cap. \$26,000. Jefferson County, white sandstone. Open, 10,000 tons; hand,

Pueblo Ry, 215, Pueblo A. T. Fisher. Cap. \$10,000. Cape Horn, lime and sandstone. Open, 75,000 tons, steam; mill, limekjlu,

Ridgway Ry, 215.

Ouray R. C. Carr & Co. C. C. Carr, prest.; W. Lewis, secy.; C. Batters, treas.; R. C. Carr, mgr, and supt. Cap. stk. \$1,000. Bluestone. Open; limekiln, 600 tons.

Wileox Brothers, Cap. \$3,000. Dallas, Star Light, brown sandstone. Tunnel, 90 tons: hand.

Pitkin Perry A. Kalbough, Cap. \$10,000. The 29 , limestone. Open, 24,000 tons; hand, steam, limekilu, 9,000 tons. Thomasville Ry. 26.

## CONNECTICUT

### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Ry. 513.

Hartford Bristol Copper & Silver Mining Co. Col. Walter Cutting, prest.; E. G. Hubbel, seey., treas. and mgr. Cap. stk. \$500,000. Bristol, copper. silver and pyrites. Shaft; steam; mill.

## STONE, MARBLE, GRANITE AND ONYX

Loc . TION OF MINE OR QUARRY, RAIL WAYS, WATER ROUTES AND SHIPPING POINT.	YAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF  2,000 POUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMEBILNS AND  CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Branford New Haven Ry, Stony Creek 504.	Stony Creek Red Granite Co. Samuel Babcock, prest; Everett 8, Grant, secy.; George Pierce, treas, and mgr. Cap. stk. 8150,000. Red Hill, granite. Slope; steam, horse, hand. W. W. Kittredge, supt.
BridgeportFairfield Rv. 480, 504.	F. W. Beers, 401 Broad st. Cap. \$10,000. Old Mill. Slopes, 7,000 tons; steam. Geo. Bradley, supt.
	Connecticut Free Stone Quarry Co. Robinson Gill, prest.; Frank W. Bliss, secy.; Oliver W. Mack, treas, and mgr. Cap. stk. \$75,000. Free Stone, brown. Open pit; steam.
	New England Brown Stone Co. H. Wales Lines, prest.; E. B. Cowles, seey.; A. Chamberlain, treas. Cap. stk, \$250,000. New England, brown stone. Open put, 150,000 tons; steam. W. F. Ranney, supt.
Danbury. Fairfield Ry, 312, 513.	Carpenter Bros., Port Chester, N. Y. (local). Cap. \$10,000. Gueiss, Open, pit, 20,000 tons; steam,
	The B. D. Pierce Jr. Co., Bridgeport, Conn., 273 Main st. D. B. Pierce jr., prest, and treas. T. B. Hastings, vprest.; J. J. Anderson, secy. Trap Rock, trap rock. Open pit, 30,000 tons; steam.
Glastonbury. Hartford Ry, South Manchester 513,	H. R. Brooks, East Glastonbury, Conn. Cap. \$100,000. Nipsis, Lily Pond, gray granite. Open pit, 1,000 tons; hand.
Greenwich Fairfield Ry, 187.	John Voorhis, New York City, N. Y., 403 E. Forty-second st. Cap. \$75,000. Greenwich Stone Quarries, granite. Open cut, 15,000 tons; horse. John Smith, supt.
Guilford New Haven Ry, 504.	Darwin N. Benton. Sachem's Head, granite. Steam.
Leetes Island, New Haven Ry, 31, 504.	John Reattie, Cap, \$100,000. Beattie, granite. Open pit, 18,000 tons; steam.
Middletown Middlesex Ry, 504.	Columbia Granite Co. J. G. Murphy, prest.; A. S. A. Himmelwright, secy.; W. A. Engeman, treas. Cap. stk. \$50,000. Benvenue, granite. Open pit; steam (developing).
**	Whitmore Bros. N. H. Whitmore, mgr. Cap. stk. \$40,000. Maromas Quarry. Open pit, 200,000 tons; steam.
PortlandMiddlesex Ry, 187, 504.	Brainerd Quarry Co. Le Roy Brainerd, prest, and mgr.; Frank Brainerd, secy, and treas. Cap. stk. \$440,000. Brainerd, brown stone. Open pit, 45,000 tons; steam.
** .	Middlesex Quarry Co., Murray Hill Hotel, New York, Ferdinand Gildersleeve, prest.; Chas. A., Jarvis, seey, and treas; F. W. Russell, mgr. Cap. stk. \$500,000. Middlesex, sandstone. Open pit, 40,000 tons; steam, horse, hand; mill.
	Shaler & Hall Quarry Co., John H. Hall, prest.; W. H. Edwards, seey, and treas.; Fred De Peyster, mgr., Cap. stk, \$100,000, Sandstone, Open pit, 50,000 tons; steam. Samuel B. Whitby, supt.
Roxbury Litchfield (P.O.Roxbury Station) Ry. Roxbury 669.	E. Mower & Co. Cap. \$75,000. Mine Hill, granite. Open pit, 20,000 tons; horse. R. T. Rlades, supt.
Stonington New London Ry, 508,	Murray & Co., Westerly, R. I. Cap. stk. \$5,000. West Side, granite. Open pit, 5,000 tons; steam,
Ry, Cornwall Bridge 312.	
Ry. 504.	Davis Bros., Niantic, Conn. Winter Davis, mgr. Cap. \$15,000. Davis Granite Quarries, white granite,
Windham, Windham Ry, Willimantic 120,	Edson & Calkins, Willimantic, Conn., Quarry st. Granite, Open plt, 10,000 tons; steam and hand.

## DELAWARE

## STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarrt, Railways, Water Routes and Shipping Poini. Town COUNTY.

Ry. 513.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Wilnington, New Castle Brandywine Granife Co., Wilnington, Del, William M. Field, prest, and treas; Merrick Horn, seey lty, 42, 563, 820. Cap. stk, \$90,000. Granife, 125,000 tons; steam, horse, hand. George Patterson, supt.

John H. Flamer, Wilmington, Del., 416 E Eleventh st. Cap. \$1,500. Brandywine Quarry, granite. Open pit, 2,000 tons; horse, hand.

## FLORIDA

### KAOLIN

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Bloomfield Ry. Leesburg 263 and 265, Bloomfield, Kaolin & Phosphate Mining Co., Col., Alex., Lynch, prest.; Hon, H. L. Anderson, secy.; Col., V. J., Shipman, freas.; J. S. Warner, mgr., Cap. stk, \$50,000, (Developing.)

#### MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNIAL OUTSITY IT TONS OF 200 POUNDS, KIND OF POWER LEED, PAINT MILLS, ETC., AND NAME OF MINE SEPERINTENDENT.

COUNTY

ille "Volusia Florida Iron Mhiing & Manufacturing Co., Orlando, Fla. R. H. Peak, prest.; H. H. Dickson, seey. Cap. stk. \$500,000. Ferro-manganese and yellow ocher. Open.

PHOSPHATE				
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNIAL OUTFOUR IS TOOK OF 2500 FOUNDE, KIND OF POWER USS D, MILES, ETC., AND NAME OF MINES EXPERINTEEDING			
Town and County				
Acme Potk Ry, 265, 691,	Massachusetts Phosphate Co., Portland, Me., John F. Varbell, prest., C. F. Allen, seey, and treas., John F. Ross, mgr., Cap. stk. \$1,000,000. Massachusetts, pebble. Open: steam: mill. 30,000 tons. James Ross, supt.			
	United States Phosphate Co., Boston, Mass., 504 Eychange Bldg. F. J. Hutchinson, prest.; C. Hale, seey.; Ben C. Leonard, treas.; W. S. Cogswell, mgr. United States, pebble and rock. Open and river, 15,000 tons; steam; mill. Albert F. Gartner, supt.			
Albion, Levy Ry, 263,	Alblon Mining & Manufacturing Co., Gainesville, Fla. D. Camp, prest.; R. J. Camp, secy, and treas., W. N. Camp, mgr. Cap. stk. \$300,000. Camp, rock. Open, 20,000 tons; steam.			
**	Albion Phosphate Mining Co., Baltimore, Md., 12 St. Paul St. Angus Cameron, prest., Henry J. Bowdoin, secy, and treas.; Malcohn Sinclair, mgr. Cap. stk. \$500,000. Albion, rock. Open; steam and horse,			
	Osceola Phosphate Co., New York City, N.Y., 19 Whitehall St. W. A. Kissam, prest.; G. J. Bradish, seey, and treas., Fred, Cubberly, supt. Rock. Open pit.			
	Portland Phosphate & Chemical Co., Portland, Me. Josiah H. Drummond, prest., Lorenzo Taylor, seey., treas, and mgr. Cap. stk. \$500,000. Portland, rock. Open pit, hand. L. Taylor, supt.			
Anglo Alachua P. O. and Ry. High Springs 658.	Anglo Florida Phosphate Co., Ocala, Fla., Opera House Block, H. H. Graham, prest.; P. J. Peacher, seey., S. M. Meck, Ireas, Cap. stk. 869,009. Anglo, rock. Open, 25,000 tons; steam; mill. 25,000 tons; H. H. Graham, supl			
Authory . Marion Ry, 263,	The Anthony Phosphate Co., Anthony, Fla. Jos, W. Wells, prest.: Henry S. Kedney, seey., treas, and mgr. Cap. stk. \$100,000. The Anthony Mine, pebble. Open: steam, mill, 15,000 tons.			
	American Phosphate Co. Emery H. Miller, seey, and treas. A Lutz, mgr. American, rock. Steam; mlll, 45,000 tons. T. W. Lutz, supt.			
44	The Central Florida Phosphate Co., New York City, 120 Broadway. Delayan C. Scoville, prest.; Julian Hawthorne, seey.; Reuben Leland, treas., Prof. E. T. Cox, mgr. Cap. 84k, \$250,000. Central Florida, pebble, Open, 30,000 tons; steam.			
	Compagnie des Phosphates de France, Paris, France, 16 Place Vendome. E. Farey, prest.; G. Thuillier, ngr. Cap. 8tk. \$1,000,000. Open, 30,000 tons; steam, hand; mill, 30,000 tons.			
**	Deacon Co. Thos. R. Baker, mgr. Deacon, pebble. Steam; mill, 4,500 tons.			
	Knott Bros. Cap. \$20,000. Knott, rock. Open, 7,500 fons; steam; mill, 7,500 fons. J. T. Brawley, supt.			
	Lindner Phosphate Co.   Cap. stk. \$12,000,   Lindner, rock.   Open; steam (developing).			
	Lutz Phosphate Co., Bagerstown, Md., Lutz, rock, Open, steam; mill,			

De Soto Arcadia Phosphate Co., Sayannah, Ga., 166). Bay st. Joseph Hull, prest.; H. P. Richmond, seey, and treas. Cap. stk. \$900,000. Arcadia, pebble. Dredge, 22,400 tons; steam. W. W. Clark, supt. Arcadia Ry. 31 Charlotte Harbor Phosphate Co., Savannah, Ga., 100 ; Bay st., Joseph Hull, prest.; H. P., Richmond, seey, and treas. Cap. 8tk, \$400,000. Charlotte Harbor, pebble. Dredge, steam, 50,000 tons. F. W. Hazlehurst, supt.

Maryland Phosphate Co., W. M. MeDowell, mgr. Cap. 8(k, \$25,000. Maryland, rock. Open, 15,000 tons, steam; mill, 15,000 tons. Plate Rock Phosphate Co. W. T. Adams, prest.; W. M. Ross, seey. Cap. stk, \$110,000. Plate Rock, rock. The Stranathan Phosphate Co., Jacksonville, Fla. L. M. Thayer, prest, and mgr., N. S. Pennington, secy., and treas. Cap. stk. \$100,000. Stranathan, rock. Open, 25,000 tons; steam.

Archer Ry, 263, Alachua Seminole Hard Rock Phosphate & Land Co., Jacksonville, Fla. J. L. Davis, prest.: A. O. MacDonell, seey.; George A. Maxwell, freas. Cap. stk. \$1,250,000. Seminole, rock and public.

Haskell, .. Pol Ry, Port Tampa 691,

Herlong... Ry. 658,

## PHOSPHATE-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 1,000 Founds, Kind of Power Used,
TOWN AND COUNTY.	MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Bartow . Polk Ry, 691,	Bartow Phosphate Co, Charleston, S. C. W. B. Chrisolm, prest, and treas.; R. G. Chrisolm, seey.; L. R. Chazal, nigr. Cap. stk. \$250,000. Bartow, Open; steam (developing).
**	Homeland Mining & Land Co. W. H. Justin, prest, and treas.; W. H. Luedry, secy. Cap. stk. \$60,000. Homeland, pebble. Open, L500 tons; steam; mill.
	The Lake Hancock Pebble Phosphate Co. R. W. Price, prest.; O. R. Price, seey.; T. M. Lybass, treas, and mgr. Cap. stk, \$100,000. Lake Hancock, pebble. Open, 30,000 tons; steam. T. M. Lybass, supt.
	Land Pubble Phosphate Co., Savannah Ga. L. W. Haskell, prest., treas., mgr. Cap. stk. \$80,000. Pebble. Open; steam, horse and hand; mill. B. H. Heyward, supt.
**	Mastodon Pebble Phosphate Co. Jay Shrader, prest.; G. A. K. Sterns, secy, and mgr.; Warren Tyler, treas. Cap. stk. \$50,000. Lake Hancock. Dredge, 20,000 tons; steam. J. T. Wear, supt.
**	Moore & Tatum Phosphate Co. A. G. Moore, prest., secy. and mgr. J. H. Tatum, treas. Cap. stk. \$25,000. Moore & Tatum, pebble. Open; steam.
	Saddle Creek Phosphate Co., Vicksburg, Miss, C. T. Searles, prest.; A. G. Russell jr., seey., treas.; T. M. Searles, mgr. Cap. stk. \$300,000. Saddle Creek, pebble. Steam; expect output to reach 30,000 tons.
Belleview Marion Ry, Greenleaf 263,	Belleview Mining Co., Jacksonville, Fla., 15 and 17 Tonayth st. C. B. Smith, prest, and mgr.; W. F. Coachman, secy.; D. Greenleaf, treas. Cap. stk. \$10,000. Belleview, soft. Open, 5,000 tons; steam. H. S. McKee, supt.
Bloomfield Lake Ry, Leesburg 263, 265,	Lake County Phosphate & Fertilizing Co. Geo, H. Tiffany, prest,; Wm. D. Mendenhall, seey.; Dr. Warren Spencer, treax, mgr. Cap. stk. \$20,000. Bloomfield, rock. Open; steam; mill, 3,000 tons. Ambrose Spencer, sapt.
Blue Spring Marion Ry, Fernandina 674.	Stonewall Phosphate Co., Jacksonville, Fla. J. R. Tysen, prest. Bryan Taliaferro, secy., treas. Cap. stk. \$500,000. Phosphate, rock. Open pit, 25,000 tons; steam.
Bowling Green - De Soto Ry, Port Tampa 265, 691,	secy, W. J. Harkisheimer, treas.; R. N. Ellis, mgr. and supt. Cap. stk. \$100,000. Pebble, Steam; dredge; mill, 29,200 tons.
Bronson Levy Ry, Fernandina 263.	Bronson Pebble Phosphate Mining & Land Co. J. M. Barco, prest.; P. M. Colson, secy.; W. J. Epperson, vprest, and freas. Cap. stk. \$150,000. Bronson, rock and pebble. Open pit.
	Suwannee River Phosphate Co., Atlanta, Ga., 6 E. Alabama st. M. Harrolson, prest.; W. I. Zachry, secy.; J. H. Porter, treas. Cap. stk. \$2,000,000. Suwannee River, rock and pebble. Open. C. P. Turner, supt.
Cleveland De Soto Ry, 31.	Gulf Phosphate Mining & Manufacturing Co., Charleston, S. C., 2 Exchange st. E. C. Williams jr., prest.: A. J. Salibas, seey, and treas.; E. L. Roche, mgr. Cap. stk. \$240,000, Pebble, 35,000 tons; steam; dredge; mill, 45,000 tons.
Cow Creek Alachua P. O. and Ry. Fort White 658.	The Columbian Phosphate Co., of Florida, Jacksonville, Fla., N. E. cor. Bay and Main sts. C. C. Robertson, prest; (Charles II, Smith, seey.; W. G. Toomer, treas. Cap. stk. \$500,000. Cow Creek, rock. Open plt; steam; mill, 20,000 tons.
Dade City Pasco Ry, 263, 691.	T. C. Fuller, Macon, Fla. Cap. \$5,000. Dade City Mines, rock. Open pit, 1,000 tons; hand,
Delaware Hernando (P. O. Pemberton) Ry. 691.	The Pasco Phosphate Co., Chicago, Ill., Monadhock Bldg. Chester B. Davis, prest.; Franklin L. Chase, secy.; Levi A. Eliel, treas.; C. M. Wead, mgr. and supt. Delaware. Open pit, 25,000 tons; horse, hand.
Dunnellon . Marion Ry, 263.	Marion Phosphate Co., Savannah, Ga., Cotton Exchange Bldg, George J. Baldwin, prest.; Wm. W. Rogers, secy., treas. Cap. stk., \$5,000,000. Rock. Open; steam, horse, hand; mill. Josiah Flournoy, supt.
	Ocala & Blue River Phosphate Co., Ocala, Fla. Chas, N, White, prest, and treas.; L. Dozler, secy.; M, W, Ellis, mgr, and supt. Cap. stk. \$3,000,000. Elliston and Verda, rock. Open, 11,300 tons; steam, horse,
Eagle Mines	Eagle Phosphate Co., Harrisburg, Pa. A. T. McCreath, prest.; Ross Wilkins, seey, and treas.; Geo. E. Potts, ugr. Cap. stk. \$2,000,000. Rock. Open, 10,000 tons, steam; mill, 15,000 tons. Jos. C. Williams, supt.
Fort Meade Polk Ry, 265.	Chilocopico Phosphate Co. H. F. Crawford, prest.; F. F. Crawford, mgr. Cap. stk. \$500. Chilocopico. Open, 1,000 tons; horse, mill, 1,500 tons.
	Fort Meade Phosphate, Fertillzing, Land & Investment Co. H. B. Smith, prest.; M. R. Cooper, seey, and treas.; J. E. Robeson, mgr. Cap. stk. \$50,000. Fort Meade, pebble. Steam.
"	Virginia Florida Phosphate Co., Petersburg, Va., Sycamore st. Pascal Davis, prest.; L. E. Balmer, seey, and treas.; T. R. Dunn, mgr. Pebble, Open, 6,000 tons; steam.
Fort Myers . Lee (Not a P. O) Ry. Boca Grande 301.	
Fort White, Columbia Ry, 658,	tons; steam.
	Columbian Phosphate Co., Jacksonville, Fla., cor. Bay and Main sts. C. C. Robertson, prest.; C. H. Smith, seey.; W. G. Toomer, treas. Cap. stk. \$700,000. Columbian, rock. Open; hand and steam.
a a	Fort White Phosphate Co., Kansas City, Mo., 719 Walmut st. E. B. Robison, prest.; W. D. Clark, seey, and treas.; R. G. Perrin, mgr. and supt. Rock. Open, 12,000 tons; steam.
Gainesville Alachua Ry, Fort White 658.	Magnolia Mfg. Co. E. C. F. Saints, prest.; F. Boyar, seey.; B. W. Fontana, mgr. Cap. stk. \$50,000. Pebble. 3,000 tons; horse; mill, 5,000 tons.
****************	Paradise Fertilizer Co. J. W. Ashby, prest.; O. J. Moat, secy., treas, and mgr. Cap. stk. \$3,500. Bone and pebble. Open; steam; mill, 6,000 tons.
Har hall Dalle	Mark to Delike Discolute the Destruction Dr. Dr. Low Charden court of A. V. Stavons coor and men

Polk Mastodon Pebble Phosphate Co., Bartow, Fla., Dr., Jay Shrader, prest.; G. A. K. Stevens, seey, and mgr.:

Warren Tyler, treas. Cap. stk, \$50,000. Mastodon, Pebble Mines, Bredge, 15,000 tons; steam; mill,
15,000 tons. J. T. Wear, supplementary of the Mines.

Columbia Tchetucknee Phosphate Co., Jacksonville, Fla., Court House, M. C. Rice, prest.; J. C. Cooper, seey.; N. B. Broward, treas, and mgr. Cap. stk, \$35,000. Tchetucknee, rock. Open; steam.

## PHOSPHATE - (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNOAL OUTFUT IN TONS OF 2,001 FOUNDS, KIND OF POWER USEO, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Hernando, Ry, 263, 674.	Citrus	Globe Phosphate Mining & Manufacturing Co., Ocala, Fla. J. R. Biggs, prest.; W. S. Turner, seey.; C. S. Yoning, treas. Cap. 8tk, \$2,400,000. Globe, lime. Open, 2,000 tons; hand. M. L. Tuttle, supt.	
	. 44	Ernest Vager. Leesburg, Fla. Cap. \$10,000. Climax, pebble. Open; hand.	
High Springs Ry, 691,	.Alachua	Anglo-Florida Phosphate Co., Ocala, Fla., 1 Opera House Block, H. H. Graham, prest, and mgr.: P. J. Prencher, seeg.; G. C. Stevens, freas. Cap. 8tk, \$600,000. Rock. Open; steam and hand; mill, 35,000 tons. H. H. Graham, supt.	
**	*	Excelsior Phosphate Co., Jacksonville, Fla. Henry M. Brooks, prest.; W. S. Prindle, secy, and treas. Cap. \$100,000. Excelsior Mine. 15,000 tons; steam.	
	11	H. F. Dutton & Co., Gainesville, Fla. C. W. Chase, mgr. Rock. Open, 20,000 tons; steam. L. O. Gold, supl.	
Homeland Ry, 265,	Polk	Homeland Mining & Land Co., Cincinnati, Ohlo, 18n Walmut st. W. H. Justice, prest., W. H. Lenders, seey.; F. R. Magerhaus, treas., M. W. La Rue, mgr. Cap. stk. \$50,000. Homeland, pebble. Dredge, steam, mill. M. W. La Rue, supt.	
"	43	Whitaker Phosphate Co., Kansas City, Mo., 7t6 Delaware st. Dr. H. C. Crowell, prest.; J. A. Moninger, seey.; Robert M. Snyder, freas.; M. S. Dowden, mgr. Cap. stk, \$50,000, Pelblie mines. Open, 4,500 tags, steam, pully kith non-thous Miles Marandey sun.	

Kendrick Ry. 265.

Inverness Ry, 674, 691,

La Crosse Ry. Hagne 658.

Lake City Ry. Branford 658.

Lakeland Ry, Port Tampa 263,

Liverpool De Soto Ry.Charlotte Harbor 31, De Soto Macon

Ry, 263, 691, Marvinla. Ry. 408

Ry. Jacksonville 658.

Myers Ry. 31.

Orlando Ry, 237, 263, 691,

Ry, 658. Pemberton mberton . Hernando Ry, Bonnie May Switch

Perry Ry, Madison 263,

Ry. Tampa 263, 691, Ry, Tampa 263, 691.

Phosphoria

Plant City Hil Ry, 263, 691.

Rock Springs, Ry, 674. Rockwell.

steam; mill, kiln, 6,000 tons. Miles Morandey, supt. Citrus Cove Bend Land & Phosphate Co. W. K. Jackson, prest, and mgr.; R. P. Moore, seey.; W. H. Meadow, freas, Cap. stk, \$200,000. Phosphate lime. Open; steam.

Gem Phosphate Co., Leesburg, Fla. M. W. Lovell, prest, C. P. Lovell, secv, and treas. Cap, stk. \$80,000. Rock developing).

Marion Standard Phosphate Mining & Chemical Co., Alexandria, Va. A. H. Agnew, prest, and mgr., M. B. Harlow, seey, and treas. Cap. stk. \$50,000. Mathda, rock. Open; steam. H. E. Anderson, supt.

Alachua Lanellon Phosphate & Fertilizer Co. Horatlo Davis, prest.; W. J. Way, seey, and treas.; Wm. Flake, mgr. and supt. Cap. stk. \$50,000. Lanellon, phosphate. Open, 3,000 tons; steam, mill, 3,000 tons. Columbia Columbia Phosphate Co., James E. Young, prest, and treas.; A. B. Hart, seey, and mgr. Cap. 8tk, \$50,000.

Rock. Open, 2,500 tons, hand Lake City Land & Timber Co., 47 Railroad St. James E. Young, prest.; A. B. Hart, seey.; J. A. Crawford, treas.; Jas. C. Getzen, mgr. Cap. stk, \$50,000. Rock. Open, 30,000 tons.

Polk Rone Valley Phosphate Co., Boston, Mass., 209 Washington St. Orin T, Gray, prest.; C. B. Hale, seey.; 33. L. W. Hasthirs, treus.; John Realey, mgr. Capp. St. \$250,000. Rone Valley, pebble. Open, 50,000 tons. Stemm mill, 50,000 tons. F, O. Warner, supp.

South Florida Phosphate Co. E. T. Woodcock, prest.; J. B. Tatum, seey.; J. S. Rence, freas, and mgr. Cap. stk. \$480,000. Peace River, pebble, rock. Open. 65,000 tons; steam; pump. mill, 45,000 tons.

.Pasco Ceres Phosphate Mines, Cap. \$50,000, Ceres Mines, rock, Open, 2,000 tons; steam; mill, 1,000 tons, T. C. Fuller, supt.

"Hilisboro Pebble Phosphate Co., Jacksonville, Fla., 16 E. Bay st. John L. Marvin, prest.; Blair Burwell jr., seey., Clas, Marvin, treas., E. P. Tallaferro, mgr. and supt. Cap. stk, \$1,000,000, Pebble, Pump, 20,000 tons; steam; mill. 2000 tons.

Clay Black River Phosphate Co., Jacksonville, Fla., 16 W. Bay st. D. G. Ambler, prest.: J. V. C. Stockton, seey, freas, and mgr. Cap. 848, \$200,000. Black River, pebble. Pump, shaft, 25,000 tons: steam; mill, 25,000 tons.

Lee Caloosahatchie Phosphate Co., Tampa, Fla. Chas, A. Green, prest,; W. D. Lewis, secy., treas.; H. E. Stannard, mgr. Cap. 8450,000. Steam dredge. Just commenced.

Ocala Marion Chicago-Florida Phosphate Co., 1 Opera House Block, T. F. Rice, prest,: Henry S. Merritt, seey., C. B. Van Kirk, trens.; P. J. Peacher, mgr. Cap., \$3,00,00. Hard rock, phosphate. Open pit, just commenced; steam; mill, 20,000 (10.8. I. E. Buser, sppt.

Ohlo Phosphate Co. G. H. De Golyer, prest., A. F. Herold, seey, and treas. Cap. stk. \$50,000. Ohlo, rock. Open, 5,000 tons; sleam. Polk Standard Pebble Phosphate Co. John H. Talbutt, prest.: J. N. Bradshaw, seey.: Natt. Peyntz, treas.: R. E. Rose, mgr. and supt. Cap. stk. \$500,000. Standard, pebble. Steam.

Alachua Paradise Fertilizer Co., Gainesville, Fla., John W. Ashby, prest., O. J. Moat, seey., treas, and mgr. Cap. stk. \$25,000. Phosphate bone. Open; steam; mill, 3,000 tons.

M. C. Rerdell & Co., Pade City, Fla. Bonnie May, pebble. Open pit, 5,000 tons; steam; mill, 5,000 tons, M. C. Rerdell, 8mpt.

Taylor National Phosphate K Mining Co., McKeesport, Pa. W. A. Dunshee, prest.; I. L. Devenny, seey.; E. E.
 Dearborn, trens.; T. A. Congdon, mgr. and supt. Cap. stk. \$200,000. Rock. Open pit developing.

Hillsborough Pernylan Phosphate Co., Tampa, Fla., Lock Box S. W. T. Roberts, prest.; G. R. Booz, seey, and treas, pa 263, 694. Cap. stk, \$50,000. Rock and pebble,

He Soto Jacksonville Peace River Phosphate Co., Jacksonville, Fla., cor, Ray and Main 8ts. Henry Robinson, 33, 631.

Jacksonville Peace River, John L. Marvin, Irens; A. G. Bigelow, ngr. Cap. 8tk. \$1,000,000. Jacksonville Peace River, pubble. Dredge, 30,068 tons; steam.

Polk The Florida Phosphate Co., Ltd., London, Eng., 4 Fenchurch av. Edward Packard jr., prest.; Oscat Michael, secy., W. S. Warner, mgr. Cap. stk. \$1,000,000. Rock. Open, 200,000 tons; steam. mill, 200,

Hillsborough The People's Pebble Phosphate Co., Otis Greye, prest.; Francis M. Loomis, seey., Fred S. Woodworth, treas. Cap. stk. \$350,000. Pebble. Open, 45,000 tons; steam dredge.

Marion Pledmont Coal & Phosphate Co., Piedmont, W. Va. John Sheridan, prest., W. T. Blockiston, seey. J. S. Jamesson, treas: Jats. M. Graham, v-prest, and mgr. Cap. stk. \$1,000,000. Rock Springs, rock Open, 10,000 tons, Steam; mill, 20,000 tons. Edward Hiller, sup.

Marion Dunnellon Phosphate Co., John L. Inglis, prest.; F. A. Teagat, secy.; John F. Dunn, treas. Cap. stk. 674, 691, \$1,200,000. Dunnellon, rock. Open; dredge, 60,000 tons; steam. Geo. A. Wells, supt. Ry. Fernandina 674, 691,

## PHOSPHATE-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,300 POUNDS, KIND OF POWER USED. MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.	
Sparr Marion Ry, 263,	Zeigler Phosphate Co., Ocala, Fla., Hafele Block. Thos. M. Crocker, prest.; Geo. W. Brown, seey.; Hugh E. Miller, treus.; C. C. Harris, mgr. Cap. stk. \$200,000. Zeigler, pebble. Open, 1,000 tons; hand. C. C. Harris, supt.	
Summerfield . Marion Ry, 263.	Carney Phosphate Co., J. J. Cowan, prest.; Jos. Hirsh, seey.; P. M. Harding, treas.; R. S. Buck jr., mgr. Cap. stk. \$600,000. Carney, pebble. Open; steam, horse and hand; mill.	
Tallahassee . Leon Ry, 263.	La Pierre Phosphate Co., Geo, W. Savon, prest.; E. Dubois, secy.; Geo, Maginnis, treas.; W. L. Davids, mgr., Cap. \$50,000. Davids & Seabury Mining Co., rock. Tunnel; steam. Fred A., Seabury, supt.	
Tampa Hillsborough Ry, 263, 691.	Tampa Phosphate Co. Dr. H. T. Lykes, prest.; O. G. Sexton, secy, and treas.; Burton E. Coe, mgr. Cap. stk. \$25,000. Pebble. 10,000 tons; steam; dredge.	
Welshton Marion Ry, 265.	Cornwall Phosphate Co., Boston, Mass., 8 Doane St., John H. Welsh, mgr., Cap. \$40,000. Cornwall, rock. Open, 700 tons; hand; mill, 1,550 tons. John H. Welsh, supt.	
" "	" Joseph F. Dean, Palatka, Fla., Emmett st. Cap. \$900. Cornwall, rock. Open, 700 tons; hand; mill, 3,000 tons. John H. Welsh, supt.	

## GEORGIA

#### COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Town

AND COUNTY.

Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Core Ovens, and Name of Mine Superintendent.

Durham . . . Walker (P. O. and Ry, Chicka-

Chickamanga Coal & Iron Co. S. T. Parrott, prest, and mgr.; Gordon Lee, secy, and treas. Cap. stk. \$500,000. Durham. Tunnel, 200,000 tons; horse; 200 coke ovens under construction. J. T. Harris.

#### GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY Town AND

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE. KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Dahlonega Jampkhi. Gainesville Ry. 622.

Cumming. . . . . . Forsyth Sawnee Mountain Mining Co. . 11. Estes, prest.; Dr. John Hockenhull, treas.; J. O. James, mgr. and supt. Ry. Buford 622. Sawnee Mountain, gold, Placer; free. Phoenix Gold Mining Co., East St. Louis, III. Robert Bowman, prest.; F. E. Dickle, seey.; C. C. Kendall, treas. Cab. stk. \$500,000. Phoenix, gold. Placer.

New England City . Dade Ry. 240.

Washington

Pride of Georgia Gold Mining Co., Weeping Water, Neb. T. K. Clark, prest.; George Hindley, seey.; T. M. Howard, treas.; David Hunter, agr., and supt. Cap. stk. \$1,250,000. Pride of Georgia, gold. Shaft, open pil, refractory, free, steamswater. Waverly Mining Co., 8t. Louis, Mo., Room 62 Turner Bidg. C. O. Godfrey, prest.; G. H. Ten Brock, seey.; A. W. Train, treas. Cap. 8tk. \$100,000. Waverly, gold. Open pit.

Addie May Mining Co., Portland, Me., 98 Exchange st., Walter L. E. J. Pleteher, freas. Cap. \$1,000,000. Addie May sdevelopings. Walter L. Emery, prest.; Wm. H. Emery, seey.;

William

Thomas M. Garrett, Sons & Co. Stony Ridge, gold. Shafts; free; steam; 5 stamps. T. M. Garrett, supt

#### IRON

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

AND Cave Spring. Ry, 240.

Floyd Georgia Manganese & Mining Co., J. M. Conper, prest.; J. H. Conper, secy., treas, and mgr. Cap. stk \$0,000. Manganese, Shaft, open pit, 2,250 tons; steam.

Polk

North Georgia Mining Co. H. N. Van Devender, seey, and treas.; W. L. Hickman, mgr. Cap. stk. s15,000. Ledbetter, hematite. Open pit, 50,000 tons; steam. Robert McCarty, supt. own & Jones, C. M. Jones, prest.; M. H. V. Jones, seey, and treas.; H. A. Holland, mgr. Cap. stk. \$30,000. Cap. indv. \$15,000. Brown, hematite. Open pit, tunnel, 30,000 tons; steam.

Etna ... Ry. 240.

Polk Efna Furnace Co., Rome, Ga., Hamilton Block, D. B. Hamilton, prest.; Harper Hamilton, seey, and treas. Cap. stk. 830,000. Efna Mine, hematite. 10,000 tons; steam, water, horse, hand; furnace. A. T. and J. J. Hamilton, supts.

#### MECA

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. Town

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Canton Ry, 420.

Cherokee Georgia Mica & Mineral Co., Ashtabula, Ohio. D. G. Palmer, prest.; H. Fassett, secy. and treas. Cap. stk. \$50,000. Mica, kaolin. Shaft and tunnel; hand, horse.

#### SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATF, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS. KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.

AND

Rockmart Ry, 240, 234.

Polk W. W. Jones & Co. Cap. \$10,000. Slate. Open, 6,000 tons; horse, hand. W. W. Jones, supt. and mgr.

## STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoct.  Name of Mini or Quarry, Kind of Stone, Kind of Mine or Quarry, Annual Output in Tons of  2,000 Pounds, Kind of Power Used, Stone or Marble Mills, Linekilins and  Capacity, Etc., and Name of Mine Suferintendent.
TOWN AND COUNTY.	
Covington .Newton Ry, 280.	H. C. & S. J. B. Freeman, Granite, Hand,
CrawfordOgiethorpe Ry, 284,	Georgia Granite Works. Cap. stk. \$5,000. Johnston, granite. Open pit. 2,500 tons; hand; mill. A. U. L. Mars, supt.
Graysville Catoosa Ry, 807.	Graysville Mining & Manufacturing Co. Louis Hamburger, prest.; L. A. Camp. seey., treas, and mgr Cap. stk. \$250,000. Limestone, fluxing stone. Open pit, 90,000 tons; steam; klin, 50,000 tons. H. M Harris, supt.
Holly Springs Cherokee Ry, 420.	Kenesaw Marble Co., Marietta, Ga. B. R. Legg, prest.; Geo. F. Newell, secy., treas, and mgr. Cap. stk \$100,000. Verde Antique, marble. Open pit: steam; mill.
tithonia. De Kalb Ry, 280.	Jenkins & Co. Cap, stk. \$1,000. Lithonia, granite.
44	M. E. Maher, Atlanta, Ga., 171 Mangum st. Cap. \$75,000. Granite. 35,000 tons; steam.
**	Southern Granite Co., Atlanta, Ga., Kimball House. George Moerlein, prest.; J. A. Eberhardt, seey. treas. and mgr. Cap. stk. \$100,000. Granite. 30,000 tons; steam, hand.
44	Wilson Bros. Wilson, granite. Open pit, 8,509 tons; hand.
Marble Hill Pickens Ry, Tate 420.	Southern Marble Co. O. W. Norcross, prest.; Z. D. Harrison, seey, and treas. Crystalline, white marble Open pit, 6,000 tons; steam; mill. J. C. Gaines, supt.
Nelson Pickens Ry, 420,	Blue Ridge Marble Co. Jno. W. Stoddard, prest.: Harry Dewar, secy, and treas.; Frank Dewar, mgr Cap. stk. \$1,000,000. Georgia, marble. Mill.
Sparta Hancock Ry. 280.	Georgia Quincy Granite Co., Maeon, Ga., Exchange Bank Bldg. T. B. Artope, prest.; Jos. W. Palmer seey, and freex; T. E. Artope, ingr. Cap. stk; \$50,000. Granite. Slope, 10,000 tons; steam, hand; po ishing mille. J. L. Multally, supt.
Stockbridge Henry Ry, 240.	M. E. Maher, Atlanta, Ga., 171 Mangum st. Cap. \$75,000. Granite. 40,000 tons; steam.
Stone Mountain. DeKalb Ry, 280.	Beauchamp & Thompson. Stone Mountain, granite. Open; hand.
Tate Pickens Ry, 420.	Georgia Marble Co. H. C. Clement, prest.; O. F. Bane, secy. and treas.; George H. Keeler, mgr. Capstk, \$1,500,000. Creole, Cherokee and 4 other mines, marble. 40,000 tons; steam; 2 mills.

	TALC
LOCATION OF MINE	The second secon
OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAMF OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME AND KIND OF MINF OR BANK, ANNUAL OUTFUT IN TOOS OF 2,00 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

## IDAHO

## COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ELC., AND NAME OF MINE SUPERINTENDENT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Hope Ry, Cabinet 529.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

Ry, Manidoka 776,

AND COUNTY.

Kootenai John Thurben, Cabinet, Idaho, Idaho King, Tunnel; hand.

## GOLD AND SILVER

Banner Bolse Ry, Bolse City 756 60 Elmira Silver Mining Co., Elmira, N. Y. L. L. Barney, prest,; N. P. Fassett, seey.; C. Preswick, treas., A. P. Boyler, mgr. and supt. Cap. sik, \$500,000. Banner, Crown Point, Wolverine and 5 others, silver, refractory; steam; 20 stamps. Cassia Simpson & Thornton. Mary, Mattie, gold, lead, silver. Open, shaft; free; hand,

Bay Hor e . Custer Ry. Ketchum 776 (75 miles).	Beardsley Minling Co. O. J. Salesbury, mgr. Beardsley, lead, silver. Tunnel, 2,000 tons; refractory; to stamps.
**	1. Christensen. Cap. \$10,000. Silver Brick, gold. Tunnel, shaft, 300 tons; refractory; hand.
**	J. W. Clarke, Clayton, Idaho. Mascot, silver, lead, copper. Shaft, lunnel, 200 tons; refractory; horse.
	Etta Vee Mining Co. Geo. Shom, mgr. Cap. stk. \$12,500. Etta Vee, gold, silver. Tmmel, shaft; horse, J. D. Voss, supt.
**	Ramshorn Mining & Smelting Co. O. J. Salesbury, mgr. Ramshorn, silver, lead, copper. Tunnels, 3,000 tons; refractory. G. Babbage, snpt.
Bellevne Logan Ry, 776.	Modoc Chief Mining Co., Salt Lake City, J. tah, 468 Main st. N. Treweek, prest.; C. T. Stevenson, seey.; W. H. Remington, treas., J. C. Cunningham, mgr., and supt. Cap. stk. \$1,000,000. Modoc Chief, Niagara, lead, 8lber and gold. Shaft, funnel; smelling; hand.
**	Pacific Tunnel Mining Co. D. G. Tutt, prest.: E. M. Home, seey.; John Doniphan, vprest.; Jas. A. Doniphan, mgr. Cap. stk. \$1,000,000. Pacific Tunnel, silver. Tunnel; refractory.
Bonanza City, Custer Ry, Ketchum 776,	Bomar & Dodge. Ruby, gold and silver. Tunnel, 200 tons; free; hand.
**	Montana Mining Co., Main st. Jas, Hooper, prest, and mgr., Amos Franklin, secy.; A. & J. P. Feitler, treas. Cap. 85,000. Montana. Tunnels and shaft, free; horse – Jas, Hooper, supt.
**	Albert Neubert. Bismark and others, gold. Tunnels, 1,000 tons; free; hand.
Bonner's Ferry, Kootenai (P. O. Fry) Ry, 293.	Boulder Creek Mining Co. Ben Morrow, prest.; T. J. Jones, seey.; H. H. Markley, treas.; Geo, Eberhart, mgr. Cap. stk. \$500,000. Jeanette, gold, silver and lead. Tunnel; free; water developing).
**************************************	Columbia Mining Co., Alma, Wis. G. M. Reinhardt, prest., L. P. Hunner, seey, and treas. Cap. stk. \$1,000,000. Sea King and 2 others, silver, copper and gold. Tunnel. R. W. Hunner, supt.
Burke Shoshone Ry , 529, 776.	Centr d'Alene Silver Lead Mining Co., Butte City, Mont. Joseph K., Clark, prest.; C. T. Effinge, secy., Joseph V. Long, freas.; Patrick Clark, mgr. Cap. stk. \$2,500,000. Poorman, Sheridan, silver and lead. Shaff, 60,000 fons; electricity, concentrator. Simon Healey, supt.
11 (1	Ceur d'Aleac Mining & Concentrating Co., Spokane, Wash. James B. Grant, prest.; John A. Finch, seey, and treas.; A. B. Campbell, v. prest, and ngr. Cap. sik. \$2,500,000. Union, gold, silver, lead. Tunnel 45,000 ions; water, refractory; concentrator. Geo. Emery, supt.
	Heela Mining Co., Wallace, Idaho. Patrick Clark, prest.; John A. Finch, seey, and treas., A. L. Gross, mgr. Cap. stk. 8500,000. Heela, silver and lead. Tunnel; refractory; water. A. B. Campbell, supt.
**	Tiger Mining Co. S. S. Glidden, prest. Cap. stk. \$500,000. Tiger, gold. Shaft, tunnel, 40,000 tons; refractory; water. F. R. Culbertson, mgr. and supt.
Challis Custer Ry. Ketchum 776.	J. D. Voss, Cap, \$10,000. Naoma, gold and silver. Slope, 200 tons; free; horse,
Clark's Fork. Kootenai Ry, 529.	Missoula & Last Chance Mining Co., Spokane, Wash. J. F. Vinton, prest, and mgr.; J. R. Rosmusson, seey., E. E. Peterson, treas. Cap. stk. \$250,000. Missoula, Last Chance, silver and lead. Tunnel, shaft; water.
Clayton	B. T. Bascom, Dickey, Idaho, Cap. \$5,000. Blacktail and 3 others, gold, silver, lead. Tunnel, shafts, open: refractory; hand.
	Blue Bird & January Mining Co. E. C. Headrick, seey.; John M. Babion, mgr. and supt. Blue Bird, January, silver, lead. Shafts, tunnels; refractory; hand.
**	Cinnabar Mining Co., Highland, III. Cap. stk. \$2,000,000. Cinnabar, gold, silver, lead. Shafts, tunnels; re- fractory, free; steam; 10 stamps. W. D. Dugdale, supt.
	Clark, Thompson & Co., Sheep Mountain, Idaho, Queen of Hearts, gold, silver. Shaft, tunnels, 250 tons; refractory; horse, hand. J. W. Clark, supt.
	Clayton Mercantile Co. Gny C. Bartow, prest.; W. Cox, seey, and treas.; A. J. Crook, mgr. Cap. stk. \$1,000,000. Red Bird, gold, silver. Tunnel, shaft, from fons, free; water; 100 stamps. H. M. Pease, stpt.

Town

Clear Water . Ry, Iron 2 Mont., 529.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

Custer ... Custer Ry, Ketchum 529 (100

#### GOLD AND SILVER -(CONTINUED)

Wiggins & Co. Russell, silver, lead. Tunnel, shaft; refractory; hand.

ir Water . . . Shoshone Chas, Larkam, Superior, Mont. Larkam, gold. Placer, 1,500 tons; water, (P. O. Superior, Mont.) Ry, Iron Mountain,

Daniel Sheehan. Blue Bird, silver, lead. Tunnel, shaft, 64 tons; refractory; band.

David Dorsey & Edwards. Black, gold, silver. Tunnels, stopes, 127 tons; free; hand.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME OF MINE, KIND OF ORE. KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Great Expectation Gold Co., St. Louis, Mo., 506 N. Main st. Jos. T. Dugdale, prest. Cap. stk. \$30,000, Robinson Bar. Gold, placer; hydraulic.

Robinson Bar Mining Co., East St. Louis, Ill., 119 N. Third st. Jos. T. Dugdale, prest.; John H. Woltering, secy.; Lucas Edel, treas. Cap. stk. \$1,800,000. Robinson Bar, gold. Placer; water.

Dickens-Custer Mines, Ltd., London, Eng. Col. Masters, prest.; G. B. Bentham, secy.; Alvalı Henry Axford, mgr. and supt. Dickens, gold, silver. Tunnels, 3,000 tons; refractory; steam; 30 stamps.

Lucky Boy Gold Mining Co., Salt Lake City, Utah, 168 Main st. N. Treweck, prest, and mgr.; C. T. Stevenson, seey.; J. Barnett, treas. Cap. stk. \$1,000,000. Lucky Boy, Anna, gold, silver. Tunnels; refractory; hand.

Custer Bollette & Mullen. Visham, gold, silver. Shaft, tunnel, 500 tons; free; steam, hand. John Mullen, supt.

**	James A. McFadden. Yankee Fork and Fraction, gold and silver. Tunnels and shafts, 1,200 tons: free.
**	Tonto Mining Co. Tonto, gold, silver. Shaft; free; hand.
De Lamar Owyhee Ry. Nampa 776 (55 miles),	Burke & Taylor, Spokane, Wash., 1225 Washington st. Garfield, gold, silver. Shaft, tunnel; free. J. N. Deake, supl.
M	De Lamar Mining & Milling Co. T. E. Bradnober, prest.; J. W. Plumer, mgr. and supt. De Lamar, gold. silver. Tunnels, 18,000 tons; free; steam; 30 stamps.
	Jones & Ready. Alta, gold, silver. Tuonel; free; steam; 20 stamps. T. W. Jones, supt.
"	Ira McGary. Cap. \$100,000. Silver Vault, gold, silver. Tunnel, 6,000 tons; refractory.
44 44	Stoddard Group Mining Co., Gold Hill, Nev. H. M. Gorham, sery, and treas.; John D. Ludwig, mgr. and supt. Stoddard, Deadwood, Midas, gold, silver, "Tunnel, shaft; free; hand.
Doniphan Logan Ry, Hailey 776.	John & James Doniphan and others, Camos No. 2, gold, Shaft, tunnel, 8,000 tons; free; steam; 20 stamps, James Doniphan, supt.
Elk City Idaho Ry, Weiser 776.	Elk Mining Co., Aberdeen, Wash. H. Talberston, prest.; J. G. Weatherwax, seey.; R. H. Evans, treas.; W. H. Hill, vprest. Cap. stk. \$500,000. Gold. Placer.
	International Mining & Developing Co., Portland, Ore., P. O. Box 758, C. I. Mulhey, prest.; M. J. Reid, seey.: Jacob Haas, Ireas. Cap. stk. \$1,000,000. Favorite and 8 others, gold, silver. Free; steam. E. C. Spidden, supt.
75 15	Mineral Hill Mining Co., Portland, Ore. A. F. Gartner, prest.; Wm. Church jr., seey, and treas.; D. N. Summers, mgr. and supt. Cap. stk. \$1,000,000. Mineral Hill and 3 others, gold. Tunnel; refractory; water.
**	Rapid River Mining Co., Spokane, Wash., Rooms 227 and 228 Hyde Block. B. C. Van Houton, prest.; A. C. Edwards, seey.; Mrs. M. J. McCoy, treas. Cap. 8tk, \$1,000,000. Alliance, Victor, Union, gold. Tunnel; free; water.
Fort Lemhi Lemhi Ry. Red Rock, Mont 776.	Lone Star Co. Lone Star, gold. Tunnel; free; steam, water,
Ry. Leonia 293,	Iowa Mining Co., Cedar Falls, Iowa. H. H. Markeley, prest.; Alfred Grundy, seey.; H. H. Flersol, treas.; E. J. Merrin, ngr. and supt. Cap. 84k, \$500,000. McGhity, gold, silver, lead. Tunnel: free; hand (developing).
Gem. Shoshone Ry, Wallace 529, 776.	Black Bear Mining Co. W. S. Sheill, mgr. Cap. \$175,000. Black Bear, Yankee Doodle, Cape Horn and Idaho Fraction Mines, silver and lead. Tunnel, 3,000 tons; refractory; water.
	Helena & Frisco Mining Co., Helena, Mont. Anton M. Holter, prest.; A. J. Seligman, seey, and treas.; A. M. Esler, mgr. Cap. 8th, 82,500,000. Badger, silver, lead. Tunnel, shaft, 51,604 tons; refractory; steam, water; concentrator. John H. Heward, supt.
	Milwaukee Mining Co., Wallace, Idaho, Bank st. B. A. Kipp, prest.; John A. Finch, seey, and freas.; A. B. Campbell, mgr. Cap. stk. 850,000. Gem of the Mountains, silver, lead. Tunnel, 6,500 tons: re- tractory; steam, water. Geo. Emery, supt.
776 (75 miles).	International Mining Co., Spokane, Wash., Room 211 Green Block. Geo. R. Ellis, prest.; Edward McNace, seey, and treas.; W. W. Davy, mgr. and supt. Cap. 8tk. \$500,000. Horse Shoe Bend, gold. Placer.
Hailey, Alturas Ry, 776.	Red Elephant Mining Co. W. H. Brown, prest.; J. M. Lindsey, seey.; J. R. McDonald, trens.; G. V. Bryvan, mgr. Cap. stk. \$5,000,000. Silver and lead. Tunnel and shaft, 20,000 tons; refractory; steam, C. C. Chill, supt.
Helena. Washington (P. O. Dale) Ry. Weiser 776 (95 miles).	South Peacock Mining Co., Boston, Mass., 88 Statest. Win. L. Platt, seev. and treas., Boston; C. F. Drake, ngr, and supt., Weiser, Idaho. Copper Key, gold, silver, copper. Shaft; horse, hand.
Ry. 529.	Stewart, Childs & Co. Dickerson, silver. Tunnel; refractory.
1daho City Boise Ry, Boise City 776.	Belia Mining Co., Boise City, Idaho. Jos. D. Wilson, prest, and seey.; Thos. J. Wilson, trens. Cap. \$150, 000. Belia, Edna, gold and silver. Shaft and tunnel; refractory; water. John C. Henry, supt.

## GOLD AND SHLVER-(CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROU AND SHIPPING POIN	TES	NAME OF COMPANY OR INDIVIDUAL, LUCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2.0.0 POTINS, KIND OF FOWER USED, STRANP MILLS, ETC., AND NAME OF MINE SUFFERINGENDENT.
TOWN AND COL	INTY.	
Idaho City	Boise	Boise County Mining Co., Ltd. H. Zipf, prest.; J. G. Watts, seey.; A. Cunningham, treas.; A. B. Morrell, ngr. Cap. stk, \$60,000. Gold. Shaft, placer; free; steam.
Junction Le Ry, Red Rock 529 miles).	anhi 9 (50	Joseph H. Faunin. Arkansas Traveler, silver, lead. Shaft, tunnel, 35 tons; refractory; hand.
		Lee Bros, & Clark. Grand Exchange, silver, lead. Shaft, refractory; hand,
**	**	A. C. Wangh, American Star, silver, lead. Shaft; refractory,
Kellogg, . Shosl Ry, 529, 776.	lione	Old Abe & Tompkins Mining & Milling Co., Wardner, Idaho, N. S. Kellogg, prest., Robert T. Horn, seey, and treas., Col. I. N. Munecy, mgr. and supt. Cap. stk, \$500,000. Old Abe, Tompkins, gold, copper, lead. Slaft, tunnel, 1,250 tons; hand.
		Sinclair Bros. Old Abe, Tompkins and 6 others, silver, gold, lead. Tunnel, shaft: refractory; hand.
Kendrick L Ry. 529 (12 miles).	atah	Boulder Creek Mining Co. Zenith and 2 others, gold, silver. Tunnel; water. W. C. McNutt, supt.
		A. F. McKenna, Important, gold, silver. Tunnel; water.
**		S. A. Moon, Sonoma, gold and silver. Tunnel; water.
Ketchum Alt Ry, 776 (4 mile).	uras	Battimore & Victoria Mining Co., Salt Lake City, Utah, P. O. Roy 622. Thomas Marshall, prest.; J. McGregor, seey, and mgr., T. R. Jones, freas. Cap. 84, 84,50,000. Baltimore Group, gold, silver and lead. Tunnel, L500 tons, free, refractory. Nicholas Hickey, supt.
**		Boulder Mining & Milling Co., Chicago, Ill. Cap. stk. \$1,000,000. Silver, lead, 200 tons, refractory. H. J. Murdock, supt.
**		James T. Cochran. Argonaut, Dixon, sliver and lead. Tunnel, 120 tons; refractory.
		J. V. Easley. Third Party, silver, lead and antimony. Refractory.
	**	Elkhorn Mining Co. Elkhorn, gold, silver and lead. Tunnel, shaft, 1,000 tons; refractory. 4, 1, Lewis, mgr, and supt.
		Independence Mining Co. R. R. Warren, mgr. Independence, silver and fead. Tunnel, refractory; hand, Chas, Swanson, supt. Developing.
		Ophir Minling & Milling Co., Great Falls, Mont., care of First National Bank, T. E. Collins, prest., R. W. Cooley, seey, and treas.; H. J. Murdock, mgr., and supt. Cap. 8tk, 84,000,000. Ophir and 5 other mines, gold, 8ther, lead. Tunnel, shaft, 300 tons, refractory; steam.
Kootenai Koot Ry, Hope 529,	enal	Atlantic Mining & Milling Co., Henry A., Stade, prest., E. M., Gillette, seev., C. O. Morrell, treas.; E. D., Fanst, mgr. and supt. Cap. stk. \$1,000,000. Atlantic, Garfield, gold, sliver, lead. Shatt; refractory, horse developing.
Malad City On Ry, Bannock Sta 776.	eida ition	Pioneer Mining, Milling & Smelting Co. D. L. Evans, prest , C. F. Stone, seey., Jas. E. Jones, treas., R. S. Wilber, jugr, and supt. Cap. stk. §1,000,000. Pioneer, gold, silver, lead. Tunnel; free; hand.
Martin Alt Ry. Blackfoot 135,	uras 776.	Areo Mining & Milling Co., Chicago, Ill., 175 Dearborn st., Room 70. J. H. Deegan, prest; Charles W. Griges, seey, and treas., John W. Cowden, mgr, and supt. Cap. stk. \$1,000,000. Idaho, silver. Shaft, retractory; steam.
Mineral Washin Ry, Huntington 5:	gton n.	Mineral Mutual Smelting Co. C.C. Wing, prest, and mgr.; M. Duffy, sery., Louis Sommer, treas. Cap. stk. \$45,000. Egan, Silver Belle, gold, silver. Tunnel, 10,000 tons; refractory. N. E. Speake, supt.
Mullan Ry, 529, 776. Shosh	hone	Gold Hunter Mining & Smelting Co., St. Paul, Minn., 336 Robert st. Dennis Ryan, prest; R. R. Galusha, seey; P. T. Kayanagh, treas., B. A. Cox, mgr. Cap. 8tk, \$2,000,000. Gold Hunter, silver, lead. Tun nel, 55,000 folos, free; water; concentrator.
	**	Horn & Ingalls. Lucky Friday, silver and lead. Refractory, hand (developing).
		Morning Mining Co., Milwankee, Wis, Edwin Reynolds, prest.; B. T. Lenzarder, seey.; Frank J. Kipp, treas., D. B. Huntley, ingr., and Supt. Cap. SRs, \$500,000. Morning. Evening. Silver King, silver, lead. Thindel, tokoot four; refractory, steam, water; concentrator.
		Butte Creek Mining Co. Fred Dutton, trustee. Butte Creek, gold. Placer; hydraulic. A. T. Sammons, supt.
	**	John Coumerilli (lessee), Louisville, Ky. Golden Chest, gold. Tunnel, 14,000 tons; free; steam; 40 stamps,
		Mother Lode Mining Co. Mother Lode, gold, Tunnel, free, water, 5 stamps. D. H. Wilsey, mgr, and supt.
44		Frank Reed, Buckeye Boy, gold. Tunnel, 2,000 tons; refractory, steam; 5 stamps.
Osburn Ry, 529, 776, Shosi	hone	Ceur d'Alene Nellie Mining Co., 8t, Paul, Minn., Room 86 German-American Bank Ridg. W. W. Braden, presk., A. P. Batcham, seey.; H. Von der Weyer, freis. (ap. 8tk, \$1,000,000. Cour d'Alene, Nellic, Enmas, silver, 3,000 tous; free; hand, water, I. N. Miney, ingr., and suppt.
**		John II. Davey & Son. Argentine, silver, iron. Shaft, tunnel, 24,000 tons; refractory; steam; concentrators.
***	**	Emma Mining Co., 8t. Paul, Minn., 25 German-American Bank Bldg. Chas, F. Diether, prest.; Wm. Foulke, seey, and treas. Cap. stk. \$1,000,000. Emma, silver. Tunnel, 1,000 tons, free, water. 1, N. Muney, supt.
	**	George & Bradner. Kill Buck, lead, silver. Tunnel, 100 tons; free. L. T. George, supt.
	**	Harrington & Cook, Cap. \$7,000. Capital, silver, lead. Free (developing).
		Muneral Point Mining & Lamber Co., Stillwater, Munn., Lamberman's Exchange Bidg. Sammel McClure, prest., A. T. Lindholm, seey.; David Tozer, trens. Cap. stk. \$500,000. Mineral Point, silver. Free, hand. I. N. Muney, supt.

Silver Chord Mining Co., Chicago, Ill., Market and Jackson etc., Joseph Biefield, prest.; Samuel J. Rline, seey. Cap. 8tk, 5,500,000. Silver Chord, silver. Tunnel: refractory. Joseph Rline, supt. Spokane & Ceur d'Alene Co., Spokane, Wash., Riverside av. F. A. Cook, prest., Gris, scillert, seey., I. N. Muney, mgr. and supt. Cap. 8tk, 8000,000. War Eagle, Mascott and 3 others, silver, copper, lead. Tunnel: refractory.

#### GOLD AND SHLVER-(CONTINUED)

	TION OF				
RAILWAYS, WATER ROUTES AND SHIPPING POINT.					
Town	AND	COUNTY.			

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT,

e..., Elmore W. C Ry. Mountain Home P

Picking & Co. Franklin, gold, silver. Tunnel, shaft; free, refractory; water; 10 stamps. W. C.

Placerville ... .Bo Rv. Boise City 776,

Picking, supt. Boise California Hill Co. Austin Dougherty, mgr. Cap. stk. \$6,000. California Hill, gold. Placer, deep; hydraulic.

Edwin Smith. Mountain Oneen, gold, silver. Tunnel; free.

Ry. Boise City 776 (40 miles). Quartzburg

Geo, Tero and others. Beishazzer, Centennial, gold, silver. Tunnel, shaft; free; water; mill. Black Bear Mining Co. Anton Silvar, mgr. Black Bear, gold. Shaft; free; band,

Gold Hill Mining Co. Gold Hill, gold. Shaft; free; steam; 25 stamps.

W. M. Nesbit & Co. Cap. \$10,000. Gold. Shaft; refractory; steam. H. F. Gear, supt.

McCormick, supt

tons; refractory; hand.

Ry. Ket miles).

Redwing Alturas C. J. Johnston, Solace, silver, gold, Shaft; refractory; steam, Ry. Ketchum 776 (50

Rocky Bar Ry. Mountain. 776 (65 miles). Mountain Home

Elmore Elmore Gold, Ltd., London, Eng., The Avenue, 11 Bloomfield st., E. C. J. R. Armitage, prest.; C. Harrison
Home Smith, secy. Cap., stk. \$1,500,000. Elmore, gold, silver. Shaft; free; steam; 50 stamps. Geo. A. McCormick, supt.

Jim Blaine Mining Co. Alex. Cochran, prest.; Timothy Downey, seey.; J. B. Fitzgerald, treas.; John Boyle, mgr. and south. Cap. \$100,000. Jim Blaine, John Boyle and 5 others, gold, silver. Tunnel, \$3,000 tons, free; steam; 10 stamps.

rtin & Golden. John P. Martin, prest, and supt. Arthur Golden, secy, and mgr.; George D. Golden. treas. Cap. \$100,000. Golden Bar, gold, silver. Tunnel, 6,000 tons; free; water; 10 stamps. Ophir Mining Co., Wheeler & Hopper, 26 Broadway, New York City. Ophir, gold. Shaft; free; steam; 20 stamps. Vishmu Gold Co., Ltd., London, Eng. Vishmu, Idaho, gold. Tunnel, shaft; free; steam; 12 stamps. G. A.

Salmon City .... Lemhi Ry, Red Rock, Mont., 776 (70 miles).

Lemhi Placer Gold Mining Co., Ltd., Denver, Colo., 43 Tabor Block, George J. Boal, prest.; L. H. Jackson, seey.; John G. Shields, treas. Cap. stk. \$5,000,000. Lemhi, gold. Placer. W. S. Patterson, mgr. and supt.

Sand Point (P. O. I

Hope, Adelaide, Canuck, Sam Rice and Exchange, gold, silver and lead. Tunnels; refractory; water; mill Kootenai C, S, Smith, Pend d'Oreille, Idaho, Cap. \$1,000,000. Blue Joe Group, silver and lead. Tunnels, 20,009

O, Pend d'Oreille) Ry. 293. Saw Tooth

Tooth Alturas Silver King Mining & Milling Co., Philadelphia, Pa., 234 S. Fourth st. Henry Levis, prest; W. S. Wylie, ky. Ketchum 776. Slope, Gap. Sik, Stogood. Silver King, Silver, gold. Slope, 500 tons; refractory; steam; mill. Wm. Hyndman, mgr. and supply.

Ketchum 776.

Sea Foam . . . Custer Mt. King Mining Co., Challis, Idaho. Chris, Morler, prest, and mgr.; R. N. Hull, seey, and treas. Cap. (P. O. Challis) Ry. \$400,000. Mt. King Mine, silver and lead. Tunnels, 330 tons; refractory; steam. A. M. Wilson, supt.

Sheep Mountain. .Custer (P. O. Dickey) Rv Y. O. Dickey) Ry Ketchum 776 (95 m.)

Shambeau & Bascom, Cap, \$10,000, Cowpuncher, silver, lead. Open pit, tunnel; refractory; hand. Harris, Wood & Davis, Hamilton, Mont. Cap. \$50,000. Boulder Creek, gold. Placer (developing): free;

Shoup., .... Lemm (P. O. Salmon City) Ry, Red Rock 776. .. Lemhi

water, A. E. Wood, supt. Lemhi Mining & Milling Co., Salmon City, Idaho. Richard H. Chapman, prest.; R. P. Quarles, seey, and treas. Cap. stk, 360,000. Burlington, gold. Tunnel, 10,000 tons; free; water; 15 stamps. J. M. Parfit, ngr. and supt.

Silver City Owyhee

P. C. Hanford and others. Cap. \$100,000. Ralph Hoyt and 3 others, gold, silver. Tunnel, shaft, 10,000 nill. M. F. Leebh, mgr. and supt. tons; free; arrastre; mill.

Ry. Nampa, 776 (50 m.).

ldaho and Pittsburg Mining & Milling Co., Pittsburg, Pa., 25 Fifth av. John Irwin jr., prest.; Lloyd L. Little, seey.; James McKay, treas. Cap. stk. \$2,500,000. Black Jack, gold, silver. Timnel; free; steam; Little, seey.; James McKay, treas, 10 stamps. Frederic Irwin, supt.

Phillips & Sullivan, Cap. \$150,000. Phillips, Sullivan, Belfast, gold, silver. Tunnel, 1,500 tons; free; steam; 5 stamps. Isaac Phillips, supt.

The Poorman Mines, Ltd., London, Eng., Leadenhall Ridgs. J. H. Botherton, prest.; D. Ovenstone, seey, and treas. Cap, stk. 850,000. Poorman, Illinois Central and 2 others, silver and gold. Shaft, tunnel; free; steam; mill. Philip J. Lonergam, agr. and supt.

Trade Dollar Mining & Milling Co., Pittsburg, Pa., 608 Ferguson Black, W. H. Dewey, prest, John M. Patterson, v. prest, Thomas B. McKaig, seey, and treas, Cap. 8tk, 82,500,000. Trade Dollar, silver and gold. Tunnel, 1,000 tons; free; steam, water; to stamps. E. H. Dewey, supt.

Sunset Peak Shoshone (P, O, Wardner) Ry, Wallace 529, 776(10 m.).

g Co. Henry Lamb, prest.; H. Drought, seey, and freas.; John Carlson, mgr. Cap. stk. Father, silver and lead. Tunnel. \$1,000,000.

Vienna. A (P. O. Redwing) Ketchum 776,

Alturas New Vienna Mining Co., Winona, Minn. C. L. Colman, prest; C. A. Morey, seey.; H. J. O'Neill, treas.; go Ry. C. J. Johnston, mgr. Mountain King and others, gold and silver. Tunnel; refractory; steam and hand; 20 stamps. C. J. Johnston, supt.

#### GOLD AND SILVER-(CONTINUED)

LOCATION OF RAILWAYS, WATE AND SHIPPING	ER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,  NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND  OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Town AND	COUNTY.	
Wallace Ry, 529, 776,	Shoshone	Carbon Centre Lead & Silver Mining Co., Portland, Ore. 31 Stark st. Nathan Elliott, prest, and mgr.; H C. Johnson, seey.; Geo. I., Story, Irea (S. Cap. 8tk, 84,06,000). Toughnut and Diamond Fraction, gold silver, lead and copper. Tinnel, 75 tous; refractory; band. Nathan Elliott, supt.
••		Cour d'Alene Mining & Development Co. W. H. Fiske, prest.; N. Wittner, seey.; Theo. F. Jameson treas., Frank J. Heller, mgr. Cap. stk. \$200,000. New Haven, silver, lead. Tunnel (developing).
	••	Granite Mining Co., Portland, Ore. V. B. Dehostmatt, prest.; E. Dehostmatt, seey, and treas.; G. F. McAulay, mgr. and snpt. Cap. stk. \$50,000. Granite, silver, lead. Tunnel, 4,000 tons; refractory.
**	••	Manumoth Mining Co. Mammoth, silver, lead, Tunnel, 1,000 tons; refractory, free. Richard Wilson nigr, and supt.
**	••	New Chicago Mining Co. Geo, H. Heller, mgr. New Chicago, Cour d'Alene, silver and copper. Tunnel free, refractory; water. John Cromic, sapt.
**	**	Parrott Mining Co., Spokane, Wash., 506 Postoffice Block, Riverside av. S. G. Allen, prest.; R. H. Greely secy, and ingr.; Lee A. Agnew, treas. Cap. \$100,000. Parrott, silver, lead. Tunnel; refractory; gravity
		Silver Chord Mining Co., Chicago, Ill., cor. Market and Jackson 848. Joseph Bieffeld, prest.; Samue Kline, seey, and treas. Cap. 848, 81,500,000. Silver Spray and 3 others, silver. Tunnel. Joseph Kline, supt.
		Standard Mining Co. A. B. Campbell, prest.; E. S. Kinney, secy.; John A. Finch, treas, and mgr. Cap stk, \$500,000. Standard, Banner, lead, silver. Tunnel; refractory; steam. George Emery, supt.
**		O. B. Wallace, Black Cloud, lead and silver. Shaft, tunnel; hand (developing).
Wardner Ry, 776.	,Shoshone	Bunker Hill & Sullivan Mining & Concentrating Co., San Francisco, Cal., 124 Sansome st. John Hay Hammond, prest; B. L. Eddy, seey.; Wn. H. Crocker, trens.; V. M. Clement, mgr. Bunker Hull, Su Hvan, Silver, lead. Tunnel, 150,005 tons; refractory; steam, water; concentrator. Frank Jenkins, supp.
**		Eureka & Crown Point Minlng Co., Tacoma, Wash. George Brown, trustee: Clarence Cunningham, mgr and supt. Eureka, Crown Point, silver, lead. Shaft; steam.
**		Last Chance Mining Co., Spokane, Wash, First National Bank Bidg. F. R. Moore, prest., H. G. Macdonald, seey.; Charles Sweeny, mgr. Last Chance, silver, lead. Tunnel, 10,000 tons; refractory steam, water.
		Old Abe & Tompkins Mining & Milling Co., Phill, O., Rourke, prest.; Joe Rogers, vprest.; R. T., Horr seey.; M. J., Suedair, treas.; Charles Suedair, mgr. Cap. stk. \$50,000. Old Abe, Tompkins, silver copper. Tunnel, 5000 tons: (ree; hand.
••	**	Sierra Nevada Mining Co., Portland, Ore. V. B. Dehostmatt, prest.; E. Dehostmatt, seey, and treas; G. B. McAulay, mgr. and supt. Cap. 8tk, \$1,000,00. Sierra Nevada, silver, lead. Tunnel, 13,000 tons, refractory.
**		Silver King Mining Co. H. A. Jones, prest.; George Gardner, seey.; O. L. Shankland, treas.; Win Merry, mgr. Cap. stk. \$1,000,000. Silver King, silver, lead. Shaft, tunnel, 12,000 tons; steam. W. T. Hales, supt.
**		Stemwinder Mining Co., Portland, Ore. A. B. Dehostmatt, prest.; J. H. Smith, seey.; E. Dehostmatt treas.; G. D. McAnlay, hugr. Cap. stk. \$500,000. Stemwinder, silver, lead. Tunnel, 3,000 tons.
		G. H. Trumbull. Hope, gold and silver. Tunnel (developing); refractory.
Varren Ry, Weiser 7		H. D. Esterbrook, Brickmaker, Stubtwist, gold. Placer; free; hand, water.
44		Waterhouse & Jenny, Weiser, Idaho. Minnehaha, gold, silver. Shaft, tunnel; free; hand.
		E. M. Barton, Cap. 830,000. Standard, Lockwood, gold, silver, copper. Shafts, tunnels.
		IRON

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2:00 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Bay Horse Custer Ramshorn Mining & Smelting Co. Post Boy, Ramshorn, Iron, lead, copper. Tunnel, 2,000 tons, miles).

## STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point,

Courry

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINN OR QUARRY, RIND OF NONE, KIND OF MINN OR QUARRY, ANYAL OUT TIT TONS OF 2,000 FOUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMICALLY, ANY CAPACITY, ETC., ANY NAME OF MINE STPERITHENERS.

Pend d'Oreille Kootenai Cannon & Gray Linie Co., Spokane, Wash., 200 Railroad av. A. M. Cannon, prest, and treas., A. R. Cannon, seey.; L. B. Merriam, mgr. and supt. Cap. 8tk, \$50,000. Pend d'Oreille, marble, limestone, Open pit; steam; 2000 tons.

LOCATION OF MINE,

# ILLINOIS

## COAL-BITUMINOUS

RAILWAYS, WATER RO AND SHIPPING POIL TOWN AND CO	DUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAFITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.
Aledo M	e-reer	P. L. Bailey. Love's. Shaft, 3,500 tons; horse,
Ry, 135. Alexis W:	arren	John Simeox (local.) Cap. \$5,000. Simeox. Shaft, 3,000 tons; hand.
Ry. 135.	**	William Cook & Son (local). Cap. \$8,000. Empire. Shaft. 400 tons; horse.
	fenry	John Blaml (local). Slope, 400 tons; horse,
Ry. 185.		
Ry. 135.		Charles McGuire, Cap. \$10c, Woodall, Tunnel, 800 tons; hand.
Alton Junction Ma Ry. Wann 135, 17	0.	stk, \$100,000. Slope, 7,500 tons; horse. William Watts, supt.
Assumption	Istian	Assumption Coal & Mining Co. David Lasharity, prest.; Silas A. Shafer, seey.; D. J. Watson, treas.; P. L. Myers, mgr. and supt. Cap. stk. \$40,000. Assumption. Shaft, 50,000 tons; steam.
Ry. 135.	ulten	Astoria Coal & Mining Co. D. M. Hettrick, prest.; S. W. McCune, secy, and mgr.; W. Scripps, treas. Cap. stk, \$10,000. Astoria. Shaft, 90,000 tons; steam. Edward Fellows, supt.
"	**	Joseph Boltenberg. Cap. \$500. Bottenberg's. Slope, 1,200 tons; horse.
Ry. 335.	enard	Athens Mining Co., Peoria, Ill., Chamber of Commerce Bldg. H. W. Lynch, prest.; Lee Kincard, secy. and treas.; Evermont Eddy, mgr. and supt. Shaft; steam, compressed air.
**	**	Wabash Coal Co., Quincy, 11., 406 Main st. Fred. Wilms, prest. and mgr.; W. Wilms, seey.; S. W. Eldred, treas. Cap. stk. \$40,000. Athens. Shatt, 150,000 tons; steam. T. P. Mowitt, supt.
Atkinson 1 Ry. 142.	lenry	James Kay (local). Cap. \$1,000. Kay's. Shaft, 20,000 tons; steam.
**		Mowbray & Lowes (local). Atkinson, Slope, 2,500 tons; horse, John Mowbray, supt.
44	**	Elery Riley (local), Cap. \$700. Atkinson. Shaft, 3,000 tons; steam.
Augusta Ha: Ry, 135.	neock	Patrick Doyle (local). Cap. \$100. Williams Creek. Slope, 250 tons; hand.
**	**	J. W. Marks (local). Cap, \$300. Idlewise. Shaft, 1,400 tons; horse,
Avon F Ry. 135.	ulton	Thomas Caldwell (local). Cap. \$200. Avon. Drift, 1,211 Ions; hand.
	amon	George N. Black, Springfield, Ill. Cap. \$75,000. Barclay. Shaft, 120,000 tons; steam. George Strebel, supt.
Bartonville I Ry, 135, 327.	'eoria	Collier Cooperative Coal Co., Joseph Van Norman, prest.; August Lacour, secy.; F. J. Collier, treas., mgr. and supt. Cap. stk. \$10,000, Collier's, Slope, 35,000 tons; steam.
**		E. Wolland & Sons (local). Cap. \$5,000. Wolland's. Tunnel, 7,000 tons; horse. E. S. Wolland, supt.
Belleville St. Ry. 402, 408, 709,	Clair	F. J. Brueggemann, 727 Lebanon av. Brueggemann. Shaft, 5,232 tons; steam.
11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	**	Consolidated Coal Co., St. Louis, Mo., Fourth and Olivests. Chas. Rhigley, prest; Geo. F. Cutts, sery, and treas; J. C. Simpson, mgr. Cap. stk. \$5,000,000. Green Mount. Shaft, 75,000 tons; Steam. Kenecht. Shaft, 75,000 tons; Steam. Rose Hill. Shaft, 40,000 tons; Steam. Schureman. Shaft, 100,000 tons; steam. Gartside No. 4. Shaft, 75,000 tons, steam. Joseph Emery, supt. Richland. Shaft, 100,000 tons; steam. Chas. Rodenberg, supt.
	**	Glendale Coal & Mining Co., 8t. Louis, Mo., 444 Market st. P. Brandenburger, prest.; A. Brandenburger, seey., and treas.; Fred. Brandenburger, mgr. Cap. 8tk. \$18,000. Glendale. Shaft, 100,000 tons; steam. H. Klingenhagen, supt.
		Highland Coal Co., 712 B st. Christ Neff, prest.; Herman Michaelis, secy.; Philip Wagner, treas.; Henry Strothman, mgr. Cap. stk. \$3,000, Highland. Shaft, 30,000 tons; steam. Henry Strothman, supt.
**		Humboldt Mining Co., Wendlin Oexner, prest.; Chas, Lenz, seey, and supt.; Henry Oexner, treas. Cap. stk., \$600. Humboldt. Shaft, 18,750 tons; steam.
	**	Klingenfus Bros. (local), 409 N. Illinois st. Cap. \$1,000. Abend No. 1. Shuft, 3,600 tons; horse. O. J. Klingenfus, supt.
**		J. Krantz & Trupp Co. Cap, \$3,000. Branch. Shaft, 3,000 tons; horse,
**	**	Maule Coal Co., 415 Franklin st. John Maule, prest. and treas.; Frank Maule, seey.; Robert Maule, mgr. and supt. Cap. stk. \$20,000. National, Main Guy No. 2. Slope, 68,000 tons; steam.
**	**	Louis Michaelis, 206 N. Race st. Piftsburg. Shaft, 12,000 tons; steam.
**	**	Reinerke Coal Co., Madisonville, Ky. Conrad Reinerke, prest.; Lukeman Bailey, secy., treas, and mgr. Cap. stk. \$100,000. Reinerke. Shaft, 750,000 tons; steam. John Brann, supt.
	**	Walmit Valley Coal Co., St. Louis, Mo., 4718 Clark av. Daniel Marsh, prest.; S. Marsh, seey. Walmit Valley. Shaft, 37,740 tons; steam. Al. E. Powell, supt.
11	**	West End Coal Co. Samuel Swain, prest.; William Jacques, seey.; Edward H. Painton, treas.; James Bailey, mgr. and supt. Cap. stk. \$10,000. West End. Shaft, 20,000 tons; steam.
		Yoch Coal & Mining Co., 1909 West Main st. William Hambleton, prest.: Edward Westwood, seey.; Peter Schonelbeck, treas.; Isaac Hewitt, nigr. and supt. Cap. stk. \$15,000. Oak Hill, shaft, 12:856 tons; Steam.
Bethalto . Ma Ry, 107,	idison	Wm, Owen. Cap. \$700. Bauner. Shatt, 500 tons; horse,

## COAL-BITUMINOUS (CONTINUED)

	(COAL-BITUMINOUS (CONTINUED)
Location of Mine. Railways, Water Routes and Shipping Point.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Ntock, Name and Kind of Mine, annual Output in Tons of 2000 Found, Kind of Fower Used, Coal Breakers, Washers, Core Overs, and Name of Mine Superintendent.
TOWN AND COUNTY.	
Bethel, Morgan Ry, 709,	Henry Bosse (local), Cap. S500. Thompson. Shaft, 500 tons; horse,
Birkner St. Clajr Ry, 408,	Avery & Randle, Avery, Shaft, 2,409 tons; steam, J. Randle, supt.
Bloomington MeLean Ry, 145, 170, 319, 503.	Cap. stk. 890,000. Bloomington. Shaft, 125,000 tons, hand; breaker. Thomas Radford, supt.
Blount, Vermillon Ry, Danville 121, 146, 784.	Wm, Jay Moore, 131 Walnut st. Cap, \$20,000. Imwood. Shaft, 3,000 tons; horse. James Dalby, supt.
Braceville Grundy Ry, 145.	Braceville Coal Co., Roswell Miller, prest.; Richard Ramsay, mgr. and supt. No. 2. Shaft, 20,000 ton : Steam.
Bradford Stark Ry, 135.	W. J. Eagelston, Cap. 81,000. Black Diamond. Shaft, 800 tons., horse,
Braldwood, Will Ry, 145, 245,	Chicago, Wilmington & Vermillon Coal Co., Chicago, Ill., The Temple. Francis Bartlett, prest., A. L., Sweet, sery, and nigr., Thos. A. Lemmon, freas. N. O. & P. Shaft, 300,000 tons; steam, R. H. Zeller, stpt.
	Coöperative Coal Co. J. G. Kelly, prest, mgr. and supt.; J. O'Connor, seey, and treas. Cap. 8tk, 85,009. Cooperative. Shaft, 4,000 tons; horse.
Breese Clinton Ry, 538.	Breese Future Coaf & Mining Co. Theo, Klutho, prest., Fritz Koch, seey, and treas., Hy, Hummert, mgr., and supt. Cap. stk. \$15,000. Breeze East. Shaft, 50,000 tons, steam.
	Consolidated Coal Co., St. Louis, Mo., Fourth and Ohio sts. Charles Ridgely, prest., Geo. T. Cutts, seey, and treas.; J. C. Simpson, mgr. Cap. stk, \$5,000,000. Breese, Shaft, 100,000 fons, steam. Wm. Harding, supt.
Briar Bhuf, Henry Ry, 135,	Brlar Bluff Mining & Stock Co. A. J. Blethen, prest, and treas.; A. R. Stoddard, seey, and supt. Cap. stk. \$100,000. Bruar Bluff. Slope, horse.
Brimfleld Peoria Ry, 135.	Phillip F, Tully   local  .   Hayward's,   Shaft, 1,500 tons   horse,
Bruce Moultrie Ry, 784,	Fairbalrn & Bliss (local). Bliss. Slope, 2,000 tons; horse.
	S. E. McCleary, Cap. \$15,000, McCleary, Shaft and slope, 3,000 tons, horse,
Bryant Fulton Ry, 135.	Scott Bros. Cap. \$5,000. Shaft, 1,000 tons, steam. Whitebreast Fuel Cu., Chicago, Ill., 900 Rookery Bidg., J. C. Osgood, prest.; C. E. Phelps, seey., G. W. Traer, treas; T. J. Phillips, mgr. Cap. 8tk. \$1,00,000. Mine F. Shaft, 40,000 tons; steam. Alex. Jenkins supt.
Bunker Hill. Macoupin Ry, 170.	Wm, Neil & Co. (local). Wm, Neil, mgr. Shaft, 4,200 tons; steam,
Ry. 142.	Coal Valley Mining Co., Rock Island, Ht. R. R. Cable, prest.; H. B. Sudlow, seey., treas, and mgr. Cap. stk. \$50,000. Cable. Shaft, slope, 200,000 tons—steam. Robert Lee, supt.
41 44	Mrs, C. B. Hill, Box 47 docab. Hill. Slope: steam. T. B. Ellis, supt.
Cambridge, Henry	Chas, Peterson, Cap. \$20,000, Peterson's, Shaft, 8,000 tons; steam, Wietom Bros, Cap. \$48, \$3,000; Indv, cap. \$1,500, No. 2, Shaft, 1,500 tons, steam, Chas, Wietom, supt.
Ry, 635, Campbell Hill — Jackson	Daniel Dawson's, Slope, 360 tons; hand,
Ry. 463.  Canton Fulton	Frank Alward   local   Cap. \$3,500   Alward's   Shaft, 2,400 fons   steam   Geo, Tompkins, supt.
Ry, 135, 762,	David Auld. Cap. \$150. Slope, 480 tons.
66 11	Bennett & Lofty (lessees). Churchill. Shaft, 258 tons, horse. Geo. Lofty, supt.
	Canton Coal Co., 16 Chestnut st. J. B. Allen, prest., treas, and mgr.; J. N. Ode, seey. Cap, stk. \$16,500, West Canton. Shaft, 4,500 tons; steam. Thuothy Knight, supt.
	A. W. Heald & Son. Cap. \$20,000. Canton Old Shaft. Shaft, 40,000 tons; steam. Thomas Simmons, supt.
**	L. L. Jones (local). Black Jack. Slope, 500 tons; horse.
* **	Will Whitham, 285 Fulton pl. Cap. \$100. Buckheart. Slope; horse.
Cantrall Sangamon Ry, 335.	Cantrall Cooperative Coal Co., John Griffin, prest., Michael Meagher, seey.; John Barron, treas.; J. D. Meld, mgr., Cap, 8tk, \$22,000. Shatt, 50,000 tons. steam., John McCleary, supt.
Ry, 289, 319, 709,	R. J. Mason (local). Slope, hand,
" "	Charles A. Ray [local). Carbon Hill, Tunnel, 1,150 tons: horse and hand,
Carbon Hill Grundy Ry, 26, 135.	Star Coal Co., Streator, Hl. W. H. Holcomb, prest, and mgr.; C. H. Rathbun, seey.; L. W. Perry, Treas, Cap, 8tk, 8t,200,000. Carbon Hill, Nos. 1 and 2. Shafts, 130,000 tons, steam. John D. Kelly, supt.
Carterville . Williamson Ry, 709.	St. Louis & Big Muddy Coal Co. E. C. Dawes, prest.: Chas. M. Hepburn, seey.; J. E. McGettigan, treas Sam. T. Brush, mgr. Cap. stk, \$300,000. Dawes. Shaft, 300,000 tons; steam. Peter Jeffrey, supt.
**	Young & Perznolia (local). Cap. \$200. Young's. Slope, 4,00 (tons; horse.
Catlan, Vermilion Ry, 784.	Hardy Harris. Cap. \$2,000. Hall's. Shaft, 2,000 tons; horse,

. " Arthur Jones, Catlin, Shaft, Leoctons; horse,
" Thomas Thomas (local), Cap, \$775, 850pc, sertons; horse,

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## COAL - BITUMINOUS (CONTINUED)

		COAL BITUMINOUS (CONTINUED)
LOCATION OF RAILWAYS, WATER AND SHIPPING	R ROUTES POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND	COUNTY.	4.4 (4.4)
Centralia	.Marion 6	Centralia Mining & Manufacturing Co. S. M. Warner, prest.; H. M. Warner, seey.; Ferdinand Kohl, treas.; Peter Forsyth, mgr, and supt. Cap. stk. \$25,000. Shaft, 125,000 tons; steam.
Chandlerville, Rv. 335,	Cass	William Shore (local). Open pit; horse,
Chatham 8 Ry, 145.		Girard Coat Co., Girard, Ill. A. J. Armstrong, prest; A. K. Voung, seey, and treas,; B. G. Smith, mgt. Chatham. Open pit, 15,000 tons; steam.
** .		Lick Creek Coal Co. C. C. Armstrong, prest.; Thos. Rinaker, seey.; A. K. Young, treas. Cap. stk. \$30,000. Chatham. Shaft, 100,000 tons; steam.
Chenoa Ry. 145, 762.		Davies Coal Co. E. M. Pike, prest.; Chas, Nickel, secy., mgr. and supt.; R. G. Jordan, treas. Cap. stk. \$15,000. Chenoa. Shaft, 15,000 tons; steam.
Clarke City	Fracy 319.	Gardner-Wilmington Coal Co. J. C. Lutz, prest., treas, and mgr.; J. F. Covey, seey, and supt. Cap. stk. \$200,000. Clarke City. Shaft, 93,000 tons; steam.
Clyde? (P.O.Hornsb)	Macoupin y)Ry, 170,	Consolidated Coal Co., 8t. Louis, Mo., Fourth and Olive sts. Charles Ridgely, prest.; Geo. T. Cutts, sery, and treas; J. C. Simpson, mgr. Cap. stk, 85,000,000, Clyde. Shaff, 125,000 tons; steam, John Rollo, supt.
Coal City Ry. 26, 145, 24		Big Four Wilmington Coal Co., Chicago, Ill., 138 Jackson st. O. D. Berchecker, prest.: H. N. Taylor, seey treas, and mgr. Cap. stk. \$100,000. Big Four. Shaft, 80,000 tons; steam. Win, Harkes, supt.
Ry, 635,		Banner Coal Co., Rock Island, Ill., Moline av. J. H. Wilson, prest, and supt. J. Pryce, mgr. Banner, Shaft, 80,000 tons; horse.
Colchester Mc		Bardsley & Lee (local). Unki Dori. Slope, 630 tons; hand. Thomas Lees, supt.  B. Egerton. Cap. \$15,000. Shaft, 13,000 tons; steam. W. E. Stanton, supt.
Ry, 135.		J. Heppenstall (local), Box 246, Cap. \$3,000. Heppenstall. Slope, 1,600 tons; horse.
		Eli Hilliard. Cap. \$1,200. Tunnel, 500 tons; hand,
		Michael Humes, Tunnel, 1,000 tons; hand,
**		Wm, T. Jefferson (local). Cap. \$200. Tunnel and slope, 800 tons; hand.
		Thomas Kipling (local), Cap. \$2,000. Kipling, Slope, 2,000 tons; hand,
h.		J. Myers, Cap. \$150. Slope, 1,200 tons; hand.
**	**	Quincy Coal Co., Quincy, Ill. H. S. Osborn, prest.; H. C. Osborn, seey, and treas.; C. C. Osborn, mgr. Cap. stk, \$2,500. Nos. 33 and 34. Shafts, 30,000 tons; steam. Thos. Terrill, supt.
**		William Robinson & Son (local), Cap. \$300. Shaft, 20 tons; horse,
	**	L. H. Vest, Vest's, Shaft, 2,000 tons; horse,
** .	**	W. D. Williams (local). Williams. Tunnel, 400 tons; hand.
Colfax Ry. 319.	McLean	Colfax Coal & Mining Co. C. G. Ritchie, prest, and mgr.; D. T. Douglass, seey.; M. L. Douglass, treas. Cap. stk. \$10,000. Colfax. Shaft, \$2,000 tons; steam. John Alexander, supt.
Collinsville Ry, 563, 748.	Madison	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Bildgely, prest; Geo. T. Cutts, sees, and treas; J. C. Simpson, mgr. Cap. stk. 85,00,000, Abbey No. 3, Shaft, 185,000 tons; steam. Win. Ffetcher, supt. Heintz Bahl. Shaft, 185,000 tons; steam. Win. Ffetcher, supt.
** .		Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Ridgely, prest., Geo, T. Cutts, secy, and trens.; J. C. Simpson, mgr. Cap. stk, \$5,000,000. Abbey Xo. 4. Shaft, 150,000 tons; steam. Win. Fletcher, supt.
Copley P. O. and R	.Knox y, Oneida	Owen Couley's. Slope, 800 tons; horse, A. M. Rosenburg, supt.
190.		James McGovern. Patrick McGovern, mgr. Cap. \$1,000. McGovern's. Shaft, 50,000 tons; horse,
** .		Charles Morgan (local), Cap. \$300. Morgan's, Slope, 600 tons; horse,
Coulterville Ry. 709,		Coulterville Mining Co. James M. Jones, prest., mgr. and supt.; J. Q. A. Nisbet, seey, and treas. Coult-crville. Shaft, 20,000 tons; steam.
Cowley P.O. and Ry 26,	, Knox Appleton	William Fish (local). Slope, 80 tons; hand.
Crab Orchard V Ry, Marion	Villiamson 709.	Ann Edwards (local). Open, pit, 1,700 tons; hand.
**	. **	E. E. Ensminger (local), Ensminger, Slope, 1,200 tons; horse,
Cuba .	. Fulton	Cuba Union Coal Co. Cuba. Shaft, 45,000 tons; steam. J. McLaws, supt.
Ry, 275, 762,	**	Eagle Mining Co., Galesburg, Ill., 14 Summer st. 8, II, Bateman, nigr, and supt. Cap. \$20,000. Eagle, Slope, 25,000 tons; hand.
	**	Wm. Nicholson & Sons. Star. Tunnel, 624 tons; horse. Wm. Nicholson, supt.
		Win, Rutherford & Co. Win, Rutherford, prest.; H. J. Efnor, seey, and treas. Cap. stk. \$10,000. Shaft: steam, J. G. Wilson, supt.
Cutler Ry. 786.	Perry	Solomon Maynard. Cap. \$3,000. Maynard's. Shaft, 480 tons; horse.
Danville Ry. 146, 170,	Vermilion 784,	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Ridgely, prest.; Geo. T. Cutts, seey, and treas; J. C. Simpson, mgr. Cap. stk. 85,000,000. Danville No. 3. Shart, 100,000 tons; steam. Danville No. 4. Shaft, 200,000 tons; steam. A. C. Daniels, supt.
		T. D. Frazee & Son (local). Cap. \$10,000. Eureka. Slope, 3,000 tons; horse. D. L. Frazee, supt.
		Wm. L. Le Warn, cor. Kinniber and Chandler. Cap. \$3,000. Moor Bank. Slope, 3,000 tons; horse.
**		WHI, L. LE WARD, COT, KIBRIDGE ARGA RABBET. CAP. \$5,000. MOOF BARK. Stople, 5,000 CORS, ROISC.

Exeter Ry 784. Scott Jas. F. Morris, Slope, 400 tons,

Fairbury . . . Livingston Walton Bros. Central. Shaft, 1,800 tons; steam. Isaac Kerr, supt. Ry, 762, 784.

## COAL BITUMINOUS-(CONTINUED)

	COAL BITUMINOUS-(CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,
AND SHIPPING POINT.  TOWN AND COUNTY.	Name and Kind of Mine, annual output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
Danville Vermilion (Continued.)	John A. Lewis (local). Cap. \$5,000. Fairchild's, Tunnel, 1,500 tons, horse,
	Elisha Lloyd. Cap, \$2,000. Star. Shaft, 4,000 tons; horse,
	J. E. Lloyd, Cap. \$4,000. Lloyd's. Slope, 4,800 tons; horse. E. D. Lloyd, supt.
	Manck Bros. (local). Cap. \$5,000. Daisy. Shaft, 3,500 tons; horse.
	Ray & Bolton, 1012 Lincoln st. (local). Slope, 4,000 tons; horse. Wm. Ray, supt.
	Wm. Reilly, Danville, 1ff., 4tu Buchanan st. Wagner. Tunnel, slope, 4,847 tons; horse. Ed Reilly, supt.
**	Shepherd & Son (local), Cap. \$4,000. Shepherd's, Slopes, 2,000 tons; horse, W. A. Shepherd, supt,
	Stransbury & Watkins (local), Cap. \$10,000, Watkins' Glen. Tunnel, slope, 6,000 tons: horse. Wim. Watkins, supt.
	C. D. Williams, Cap. \$5,250. Slope, 6,000 tons; horse,
Dawson Sangamon Ry, 784.	treas, Cap. stk, \$40,000. Dawson. Shafts, 150,000 tons; steam, T. P. Mowitt, supt.
Decatur. Macon Ry, 319, 323, 571, 749, 784.	mgr, and supt. Cap. stk. \$100,000. Decatur. Shaft, 160,000 tons; steam.
De Soto, Jackson Ry, 319.	Big Muddy Coal & Coke Co. Casper Koehler, prest.; Daniel Steele, seey., mgr. and supt.; G. H. C. Bodeker, treas. Cap. sik. 818,00. Nos. 1 and 2. Shafts, 33,429 tons; steam.
Diamond Grundy Ry. Braidwood 145, 245,	Wilmington Coal Mining & Manufacturing Co., Chicago, Ill., The Temple, cor, Monroe and La Salle sts., Room 527. Hon. H. J., Jewett, prest. D. S. Gray, seey.; James Datzell, treas: H. G. Fordyce, mgr., Cap. 848, 8750,000. Diamond. Shaft, 150,000 (1008) steam. David Skimer, supt.
Ry, Lewistown 235, 275.	Sulder & Hendee (local). Tunnel, 360 tons; hand.
Dunfermline. Fulton Ry, 135,	Whitehreast Fuel Co., Chleago, Ill., 940 Rookery Bidg. J. C. Osgood, prest., C. E. Phelps, seey., G. W. Traer, treas; T. J. Phillips, mgr. Cap. 8tk, \$1,300,000. Mine C. Shaft, 171,068 fons; steam. Alex. Jenkins, supt.
" " " " " " " " " "	Whitebreast Fuel Co., Chicago, Ill., 940 Rookery Bidg. J. C. Osgood, prest; C. E. Phelps, seey., G. W. Traer, treas; T. J. Phillips, ngr. Cap. 8tk, \$1,300,000. Mine D. Shaff, 75,000 tons; steam. Alex. Jenkins, supt.
Du Quoin Perry Ry, 319, 709.	Du Quoin Coal Mining Cor. C. McKinley, prest.; J. M. Browning, seey. Browning. 8haft, 140,000 tons: steam. Joseph Brookshaw, supt.
**	Egyptian Mining Co., W. T. Maolin, prest., C. H. Hatfleld, seey, and supt., 4, 8, 8mith, treas, Cap. 8tk, \$5,000. Egyptian, Shaft, 300,000 tons; steam,
	Excelsior Coal Minling Co. Thos, Wilson, prest.; G. F. Blakeslee, seey, and treas., N. A. Rice, mgr. and supt. Cap. 8tk, \$1,500. Excelsior. Shaft, 100,000 fons; steam.
	Greenwood Coal Co. Win, Greenwood, mgr. Greenwood. Shaft, 45,000 tons. J. W. Greenwood, supt.
	Horn's Coalery Co. Henry Horn, prest. Horn's Coalery. Shaft, 120,000 tons; steam. Frank Horn, supt. Jupiter Mining Co., Division st., Jas. J. Sylvester, prest.; W. W. Sylvester, seey, and treas., 8, B. Eaton, mgr, and supt. Cap. stk. \$50,000. Jupiter. Shaft, 124,000 tons; steam.
	Perry County Coal Minding Co. Don Onstott, prest.; Win, Goddard, seey., treas, and supt., Walter Williams, mgr. Cap. stk. \$7,500. Perry County. Shalt; steam.
	Superior Coal Mining Co., St. Louis, Mo., 24 Laclede Bldg. Peter Nicholson, prest., A. M. Clark, mgr. Superior. Shaft, 30,000 tons; steam. Jas. Thornton, supt.
East Peoria Tazewell Ry, 378, 762,	Edwards & Colver, Peorla, Ill., 143 N. Jefferson av. (local). Cap. stk. \$4,000. East Peorla, Slope, 8,000 tons; steam. Wm. Reynolds, supt.
Edinburg .Christian Ry, 538.	Edinburg Coal Mining Co. Basil Greenwood, prest.; Geo. P. Harrington, seey, and treas.; David J. Lloyd, mgr. and supt. Cap. stk. 850,000. Greenwood. 50,000 tons; steam, electricity and compressed air.
Edwards Peoria Ry, 135,	Howarth & Taylor Bros. Cap. \$15,000. Slope, 50,000 tons; steam; breaker - James Taylor, supt.
1 AF	Kramm Bros, Peoria, III., 439 Woolner Bldg. Cap, \$10,000. Drift, 80,000 tons; steam; breaker. D. Kienbusch, supt.
Edwardsville. Madison Ry, 784.	Crabb, mgr. Cap. stk. \$300,000. Edwardsville, Shafts, 350,000 tons; steam.
Eldorado	Eldorado Coal Co. J. H. Musgrave, mgr. Brooklyn. Slope, 6,000 tons; steam.
Elmira Stark Ry, Neponset 135,	Chas, Gillet, Shaft, 40 tons.
Ry, 135.	John A. Endris (local). Endris. Shaft, 20,000 (ons; horse,
Equality Gallatin Ry, 408,	Equality Coal Co. B. Temple, prest, treas, and mgr.; J. J. Castle, seey. Cap. stk. \$150,000. Shaft, 30,000 tons; steam; 25 coke overs, capacity 6,000 tons. Tra W. Jerrodds, supt.
Essex . Kankakee Ry, 170, 784.	Thomas Treasure & Sons. John T. Treasure, seey. Cap. \$5,000. Treasure's. Shaft, 3,000 tons. horse,
Ewing Franklin Ry. Benton 709.	W. A. King (local). King's. Open pit, 200 tons; hand,

#### COAL-BITUMINOUS-(CONTINUED)

LOCATIO	ON OF	MINE,
RAILWAYS,	MAGE	R ROUTES
AND SHI	PPING	POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNOLA UPTET IN TORS OF 2:000 POUNDS, KIND OF POWER USED, COAL BEREARIS, WASHERS, CORE OVENS, AND NAME OF MINE RUPERINYEMBERT.

" Theodore Pumyea (local), Cap. \$1,000. Pumyea, Tunnel, 3,000 tons; hand.

Farmington, Fulton Claire Coal Co., Chicago Ill., 443 Phenix Bidg, J. S. Morton, prest.; H. N. Taylor, seey, and mgr.; J. F. Ry, Middle Grove 135. Stone, treas. Cap. 8tk, 855009. No. 2. Shaft, 80000 Floris, Steam. Win, Cruickshanks, supt.
First. Phys. Rev. Lett. 11, 23 March 11, 23 March 11, 23 March 12, 12 March 12, 1

Ry, McLeanshore 468,
Fosterburg, ..., Madison Wm, H. Fichenal (local). Slope, 325 tons; hand,

y, Dorsey 170,

"B. F. Lucking (local). Charles H. Lucking, mgr. Cap. \$400. Lucking's. Shaft, 600 tons; horse.
 Fredonia. Ry, 709.
 Williamson Crystal Plate Glass Co., St. Louis, Mo., 404 Market st. E. A. Hitchcock, prest.; Edmund T. Allen, seey.; Chas. W. Barnes, treas.; H. Willson, mgr. and supt. Cap. stk. \$1,500,000. Fredonia. Shaft, 100,000 tons; steam.

" Scarbro & Griffin (local), Cap. stk. \$1,000. Sprague, Shaft, 2,000 tons; horse,

Freeburg . . . . St. Clair Chas. Becker. Cap. \$5,000. Freeburg. Shaft, 15,000 tons; steam. Frank Nold, supt. Ry, 709.

" ..... " Randle Coal Co. Philip Conrath, prest.; Peter Herman jr., seey., treas, and mgr. Cap. s(k, \$10,000, Randle, Shaft, 50,000 tons; steam, Wm, Randle, supt.

" St. Clair Coal Co., St. Louis, Mo., 311 Olive st. Crittenden McKinfey, prest.; E. B. Huff jr., seey.; W. S. Scott, treas, and mgr. Cap. stk, \$25,000. St. Clair. Shaft, 60,000 tons; steam. Anton Danzer, supt. Galesburg. Pressed Brick & Tile Co., 23 Main st. J. C. Stewart, prest.; J. H. Calkins, seey, and treas. Cap. stk, \$15,0,000. Shaft, 7,808 tons; steam. Peter Dolan, supt.

" .... " Mrs. P. Milan (local). Cap. \$4,000. Soperville. Shaft, 40 tons; horse.

" ....... " Ross S. Woodward (local). Soperville. Shaft, 2,600 tons; horse and water. John Ross, supt.

" James H. Murray, Cap. \$1,200. Murray's, Shaft, 3,500 tons; steam,

Gardner, . . . . Grundy Gardner-Wilmington Coal Co., J. C. Lutz, prest, treas, and mgr.; J. F. Covey, seey, and supt. Cap. stk. Ry. 281, 345. \$290,000. Gardner, Shaft, 50,000 tons. Steam.

Georgetown ... Vermilion J. B. Clifton. Open, pit, 300 tons. Ry, 135.

Gilchrist, ..., Mercer Empire Coul Co., Edward H. Thayer, prest.; Chas, F. Alden, seey.; H. M. Gilchrist, treas, and mgr. Cap, 8tk, \$60,000. Shaft, 88,890 tons; steam. Chas, Shuler, supt.

Ry, 143, 385. Sugar, 200,000 tons: steam and compressed air. Hiram M. Young, supt. Glenburn... Vermillon Glenburn Coal Co., C. M. Swallow, prest.; W. J. Cahwon, seey.; W. W. Whaite, treas. Cap. stk. \$100,000. Ry, Oakwood 146, 170. Glenburn. Shaft, 100,000 tons; steam. Class. Swan, supt.

Glen Carbon — Madison Coal Co., St. Louis, Mo., 415 Locust st. Wm. E. Gny, prest, and treas.; Jas. L. Blair, seey.; J. D. Crabb, mgr. Cap. stk, \$300,000. Glen Carbon Nos. 1, 2 and 3. Shaft, 600,000 tons; steam and compressed air. H. Lesler, sup.

Grape Creek. "Vermilion J. W. Blue. Tunnel, 7,500 tons; horse, Ry, 146.

" A. M. Bushong, Cap. \$5,000, Bushong, Tunnel, 5,000 tons.

Grape Creek Coal Co., J. B. Brown, prest.; A. N. Sullivan, seey, and treas.; Joseph Fairhall, mgr. Cap. stk. \$500,000. Nos. 4 and 5. Shaft and slope, 210,000 tons; steam. Geo. Coster, supt.

" Kellyville Coal Co., Danville, Ill., 19 E. Main st., Room I. W. J. Calhoun, prest.; W. L. Runyan, seey.; M. Kelly, treas, and mgr. Cap. 8tk, \$500,000. Shafts, 250,000 tons; steam. James Doughty, supt.

" Lucas & Raine, W. Raine, prest., mgr. and snpt. J. Lucas, seey, and treas, Cap. stk. \$1,000. Valley, Drift, 2,000 fons; steam.

\*\* L. J. Mozier & Co. L. J. Mozier, prest; U. J. Mozier, seey.; Jas. McDowell, mgr. and supt. Cap. 8tk. \$10,000. Grape Creek. Slope and open pit, 50,000 (rons; horse.

" Pawnee Coal Co., Chicago, Ill., No. 935 Rookery, Bernard Himrod, prest, and mgr.; R. W. McKay, seey, and treas. Cap., 8th, 825,000. Pawnee, Shairt, steam. W. W. Keefer, supt. (developing).
" Pakering Champathy, Whither Co., Loyd, Huye, prest, prest, Parker, Parker, Loyd, Shaye, Sant, Lohn, Shaye.

"Protective Cooperative Mining Co. Joseph Hays, prest, and treas,; David Owens, seey.; John Shaw, mgr, and supt. Cap. stk. \$5,250. Cooperative. Shaft, 16,000 tons; horse,

Spellman Coal Co., Thos. L. Spellman, prest.; S. J. Spellman, secy, and treas.; Wm. Tennery, mgr. Cep. stk. \$20,000. Drift, 50,000 fons; horse, steam. James Price, supt.

Greenview . . Menard Menard Coal Co. S. T. Hurst, prest; J. A. Petrie, secy, and mgr.; E. D. Taylor, treas. Cap. stk. \$40,000, Ry, 145. Menard Nos. 1 and 2. Shaft, 112,000 tons; steam. J. A. Bracken, supt.

Griffin . . . . Mercer Griffin Bros. (local), Cap. \$10,000. Shaft, horse, Ry. New Windsor 135.

Groveland Tazewell J. T. Mace, Pekin, III. (local). Cap. \$390. Union. Shaft, 20,000 fons; horse.

#### COAL -BITUMINOUS (CONTINUED)

LOCATION OF MINE. AILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Tazewell Jacob Schmidt (local). Cap. \$2,000. East Peoria. Shaft, 3,654 tons; horse.

Geo, Wieland (local). Cap. \$500. Shaft, 1,690 tons, horse,

Grubb Ry, 709.

Jackson A. C. Crain (local). Crain's. Slope, 160 lons; horse

Hampton Ry, 141.

Rock Island Groth Bros. Porter's. Slope, 925 tons; hand.

Harmony Station St, Clair Not a P. O.) Ry, 402,

Northern Mining & Railway, Co., Samuel Heagy, prest.; Morris S. Heagy, seey, and treas, Cap. stk., 824,000. Shaft, 6,338 tons, steam. Robert Pickett, supt.

Fulton

Crown Coal Co., 8t. Louis, Mo., foot of Carr st. J. T. Taylor, prest., mgr. and supt., Bart S. Adams, seey and treas. Cap. stk. \$50,000. Crown. Shaft, 85,500 tons; steam.

P. O. and Ry, Bushnell

Robert Orr (local). Orr's. Slope, 160 (ons; hand,

Saline

Davenport & Co. Wm. N. White, secy, and freas., John Davenport, mgr. and supt. Black Hawk. Shaff, 15,000 fons, steam.

Harrisburg Ry, 170,

Howell & McCreery. Cap. \$15,000. Clifton. Slope, 700 tons; horse. W. H. Howell, supt.

Henry

John Rochford, Cap. \$500. Round Grove. Shaft, horse.

Smith & Hodsall, local). Round Grove. Slope, 1,500 tons, steam, S. Hodsall, supt.

Hillery Ry. 170. Hillsboro Montgomery

Vermillon Z. T. Casteel, Cap. \$2,000. Holden. Shaft, t.000 tons, horse,

Jathes Reagan, Cap. \$3,000. Lamarsh Creck No. 1. Open pit, 70,000 tons. In no.

Rv. 170.

Hillsboro Coal Co., G. W. Paisley, prest., W. A. Finney, seey, treas, and mgg. Cap. 8tk, 830,000. Shaft, 50,000 tons, steam. Wm. Kortkamp, supt.

Hollis P. O. an - Ry, Orehard Manes 762.

German Coal Co. Henry Graber, prest and mgr., John Backes, seey., Fred Bochen, treas. Cap. stk. \$4,000. Bonarex. Stope, 13,001 ton : 100 m.

Adam Sholl, Peoria, Ill., Woolner Bidg., Room 339. Cap. \$209,009. Sholl's Nos. I and 2. Slope and shaft, 124,800 tons, steam. Joseph Sholl, supt.

Humrick ... Vermillon J. W. Jones (local). Open pit, 775 tons. horse Ry, 763. Industry Meron Ry, Macomb 135,

McDonough John McInt reslocal . Tunnel, 120 tons, hand,

Ipaya Ry, 1, 5,

Jack Wilson (local), Jones, Stope, 500 tons, Fulfor C. & R. Roddis, Cap. \$1,000, Ipaya, Tunnel, 2,000 tons, Robert Rodd's, upt

Peoria Samuel Mosley, Jubilee, Tunnel, 75 tons, hand,

Kangley . La Salle Ry, 26, 135, 145, 784.

Star Coal Co., Streifor, Ill. W. H. Holromb, prest and nigr. C. H. Rathboo, seey., L.W. Perry, treas Cap. stk, \$1,200,000. Kangley Nos. 1 and 2. Shaft, 33,000 tons, sterm. John D. Roberts, supf.

Kewanee Ry, 135. Henry

Kewanee Coal Co. E. F. Baker, prest., J. C. Williams, seev., A. M. Hewhit, treas.: A. W. Errett, mgr (ap. 8tk, 825,000. Shaft, 50,000 tons; steam. J. J. Fleming, supt.

Tibbetts & McMuffen (local). Shaft, 64,000 tons, steam. Philip Henry, supt

Kie capoo Ry, Edwards (35

Peoria John Jordan (local). Banner. Slope, 800 tons, horse

Kinmundy ,Marion W. S. Matthews local . Kunmundy. Stram. Knoxville Rv. 1.5.

Knox T. C. Dodds (local), Box (8). Shaft, 1,80) fous (horse

Samuel Hopper & Son (local). Cap. stk. s15,000. Tunnel, 600 tons; hance. Sam. of Hopper, supt.

Whitebreast Fuel Co., Chicago, H., 30) Rookery Bldg. J. (1, Osgoo), prest. (1, E. Phelps, siew. G. W. Traer, treas., T. J. Phillips, mgr., Cap. 8tk, \$1,300,000. Mme B. Shall, 4.3 5 tons. Steam. Adam.

Langersh Creek. Peoria P. O. and Ry. Orehard Whes 762.

La Salle I. Rv. 135, 142, 319,

Illinois Valley Coal Co. J. F. Joy, prest., F. O. Wyatt, seey, and mga., H. S. Hazen, treas. Cap. 8tk, 8354,000, No. t. Shaft, 125,000 fons, steam, G. W. Wyatt, supt. 8351,000.

Matthiessen & Hegeler Zine Co. E. C. Hegeler prest., F. W. Matthiessen, seey. Shatt, 75,009 tons steam. John Heinz, supt.

Oglesby Coal Co. T. T. Bent, prest, treas, and mgr., E. T. Bent, seey. Shatt, succetons, steam. Edw.

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## COAL-BITUMINOUS-(CONTINUED)

	COAL-BITUMINOUS-(CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
TOWN AND COUNTY.	
	Union Coal Co. James W. Duncan, prest.; A. J. O'Conor, seey.; John Stuart, treas.; N. W. Duncan, ingr. Cap. stk. \$30,000. No. 1. Shaft, 125,000 lons; steam. B. M. Hetherington, supt.
Ledford Saline Ry, 170.	James C. Heenan, Cap. \$600. Ledford, Slope and open pit, 481 tons; horse,
	Isaac Bath (local). Bath. Slope, 1,200 tons; horse,
**	Jerome Williams (local). Cap. \$100. Alliy. Tunnel, 4,600 tons; hand.
Limestone Peoria P. O. and Ry. Peoria 327, 762.	John Lanck (local). Cap. \$1,000. Green Valley. Shaft, 6,000 tons; steam. Geo. Freezer, supt.
16	James Slean (local). Cap. \$400. Slean's. Slope, 10,000 tons; hand.
Lincoln Logan Ry, 145, 319, 571.	Citizens' Coal Mining Co. A. Mayfield, prest.; P. Casey, secy.; P. Olcamp, treas. Cap. stk. \$60,000. Citizens'. Shaft, 100,000 tons; steam. F. F. Holmes, supt.
Litchfield Montgomery Ry, 170, 335, 784.	Lincoln Coal Co., Cap. \$200,600. Nos. 1 and 2. Shaft, 90,000 tons; steam. Frank Trover, supt. Litchfield Coal Co., 6 State st., Isaac Kirby, prest.; D. Davis jr., secy., treas, and supt.; Joseph Richardson, mgr. Cap. stk, \$10,000. Litchfield. Shaft; steam.
	Chiengo, Wilmington & Vermilion Coal Co., Chiengo, Ill., The Temple, cor, Monroe and La Salle sts, Francis Bartlett, prest.; A. L. Sweet, seey, and mgr.; Thos. A. Lemman, treas. Open pit, 50,000 tons; steam. James Cherry, supt.
Loding Rock Island	Donald & Jamieson (local). Cap. \$2,000. Shaft, 4,000 tons; steam. E. G. Jamieson, supt.
Ry, 135, 141, 142.	John H. Loding (local), Cap. \$2,000. Loding. Slope, 4,000 tons; steam,
	A. W. Higbee (local). Cap. \$1,000. Lombardville. Shaft, 150 tons; horse,
	J. W. Lamb.   Slope, 600 fous; hand.
	J. A. Anderson & Sons (local). Slope, 360 tons.
	William P. Allen (local), Box No. 188. Slope, 7.500 tons; hand.
	William Tippett (local), Cap. \$500. Slope, 750 tons; horse,
Marissa St. Clair Ry, 402.	Consolidated Coal Co., St. Lonis, Mo., Fourth and Olive sts. Charles Ridgely, prest.; Geo. T. Cutts, seey, and treas.; J. C. Simpson, ngr. Cap. stk. \$5,000,000. White Oak. Shaft, 100,000 tons; steam. Chas. Rodenberg, supt.
Milan Rock Island Ry, 635.	William Parker (local). Cap. \$1,000. Shaft, 2,500 tons: hand and horse.
35	Fred, Von Ach (local), Cap. \$150. Von Ach. Shaft, 125 tons; horse,
Millersburg Mercer Ry, Aledo 135.	Parker & Morris (local). Slope, 68 tons; hand.
MillstadtSt, Clair Ry, 463,	Sutton, mgr, and supt. Cap. stk. \$6,000. Shaft, 17,000 tons; steam.
Mineral	
Minonk , Woodford Ry, 26, 319,	Estate of Miner T. Ames, Chicago, Ill., 145 La Salle st. Mrs. Irene C. Ames, administratrix. Cap. \$165,000. Chicago and Minonk. Shaft, 100,000 tons; steam. D. S. Richards, supt.
Mission Fields Vermilion Ry. Oakwood 170,	
Monica Peorin Ry. 26, 135.	Charles Berry & Sons (local). Charles Berry, mgr. Cap. \$800. Guyer. Shaft, 600 tons; horse. William Berry, supt.
ar	Wesley Dalrymple, Cap. \$6,000. Black Diamond. Shaft, 7,500 tons; horse.
Monmouth Warren Ry, 135, 327.	William Packard (local). Slope, 640 tons; hand.
Monterey Fulton Ry, Canton 135, 762.	Robert Williams (local). Slope, 7 tons; hand,
	Herman Kabel (local). Cap. \$500. Shaft, 1,200 tons; horse.
Morris Grundy Ry, 142.	
** ** **	T. L. Thurston (local). Shaft, 4,500 tons; horse, A. F. Watson (local). Shaft, 600 tons; horse,
Mt. Olive Macoupin Ry, 335, 784.	Consolidated Coal Co., St. Lonis, Mo., Fourth and Olivests. Chas, Ridgely, prest.; Geo. T. Cutts, seey, and treas.; J. C. Shinpson, mgr., Cap. stk, \$5,000,001, Mr. Olive No. 10. Shaft, 200,000 fons; steam. Mt. Olive No. 8, Shaft, 265,000 tons; steam. Jos. C. Hebenstreft, sup.
	Mount Olive Coal Co., G. E. Taintor, prest.; G. D. L'Huilier, secy.; A. J. Moorehead, asst. treas, and mgr. Cap. stk. \$1,000,000. No. 1. Shaft, 150,000 tons; steam. Joseph Hann, supt.
Moweaqua Shelby Ry, 319,	Moweaqua Coal Mining & Manufacturing Co. J. E. Gregory, prest.; A. J. Combs, seey.; V. Snyder jr., treas.; Chas. J. White, mgr. and supt. Cap. stk. \$25,000. Moweaqua. Shaft; steam.
Muddy Vailey . Jackson Ry, 319.	Muddy Valley Mining & Manufacturing Co. N. C. Wright, prest. Muddy Valley. Shaft, 150,000 tons; steam. John Forester, supt.

## COAL-BITUMINOUS CONTINUED)

	COAL-BITC MINOUS COMMENT
LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock Name and Kind of Mind, annual Output in Tons of 2,00 Pounds, aind of Power Used, Coal Breakers, Washers, Core Ovens, and Name of Mine Superintendent.
Town and County.	
Murphysboro,dackson Ry, 289, 319, 458, 463.	Gartside Coal Co., St. Louis, Mo., 544 Pine st. C. E. Gartside, prest., treas, and mgr.: Alexander Hamilton, seey, Cap. stk. 8500,000, Nos. 1, 3, 4. Shafts, 120,000 tons; steam and compressed air. Frank Hartman, supt.
•	New Kentucky Coal Co., Chicago, Ill., 215 Dearborn st. P. D. Whitehead, prest.: Thos. J. Whitehead, seey, and treas. Cap. stk. \$100,000. New Kentucky. 300,000 tons; steam.
**	Edgar E. Poole, Cap. \$2,000. Poole, Shaft, 4,500 tons; steam.
	8t. Lonis (ore & Steel Co., St. Louls, Mo., Granite Bldg. E. A. Hitchcock, prest; O. L. Garrison, seey, and treas. Shafts Nos. 4 and 5, Harrison. Shafts, 400,000 tons; steam. J. D. Peters, supt. D. P. Willis (becal). Cap. \$12,000. Willis. Shaft, 12,000 tons; steam. Thos. W. Gill, supt.
Murrayville Morgan	F. Wagstaff (local). Wagstaff, Open pit, 120 tons; horse.
Ry, 145.	Davemport & Co., Harrisburg, III. John Davemport, prest.; W. N. White, seey, and treas. W. Hallsopp, mgr. Cap. sik, 89,000. Newcastle, Shaft, 30,000 Ions; steam. W. R. Williams, supt.
Newtown Livingston P. O. Streator.	L. A. Munts & Sons (local). Cap. stk. \$900 000. Munts. Tunnel, 100 tons; horse,
Niantie, Macon Ry, 784.	Niantic Coal Co. Henry Shlandeman, prest.; Albert Barnes, seey., treas, and mgr. Cap. 8tk, \$25,000, Shaft, 100,000 tons, steam. Richard Henley, supt.
Ry, 145.	Nilwood Carbon Coal Co. H. Cooper, prest.; F. W. Cooper, seey, and treas., C. Cooper, mgr. and supt. Cap. stk, \$15,000. Shaft, 100,000 tons; steam,
Norris Fulton Ry, 135.	D. H. Williams, Cap. \$35,000. Norris, Shaft, 40,000 fons; steam, W. J. Spencer, supt.
Ry, 145, 170, 708,	Nathan Syddall, Cap. \$600. Shaft, 3,744 tons, horse. Nathan Syddall, supt.
Oakwood , Vermilion Ry, 146, 170,	Consolidated Coa Co., St. Louis, Mo., cor. Fourth and Olive sts. Chas. Ridgeley, prest; Geo. T. Cutts, seey, and treas, J. C. Simpson, mgr. Cap. stk. 85,00,000. Mission Field Strippings. Open pit, 150,000 long steam, A. C. Daniel, supt.
. "	Middle Fork Coal Co. George W. Abdill, prest.; Michael France, seey. Cap. 8tk. \$100,000. France, Shaft, 150,000 tons; steam. Alfred Blake, supt.
Ry, 319, 598,	Odin Coal Co. N. B. Morrison, prest.; F. D. Secor, seey., mgr. and supt., Tra W. Lane, treas. Cap. 8tk. \$25,000. Odin. Shaft, 100,000 tons; steam.
O'FallonSt. Clair Ry, 538.	Win, Crowson & Sons, St. Louis, Mo., 702 N. Seventh st. Win, Crowson sr., prest.: Fred Crowson Jr., seey.; Elllin Crowson, treas, and supt.; Win, Crowson jr., mgr. Cap. 8tk. \$25,000. Darrow. Shaft, 50,000 tons; steam.
OkawvilleWashington Ry, 408.	F. W. Stricker (local). Cap. 85,000. White Smoke. Shaft, 1,600 tons, steam. Mike Batthasar, supt.
Ora	Wm, Campbell (local). Cap. \$2,500. Campbell's. Slope, 750 tons; horse,
**	Henry Ditzler, Cap. \$500. Enterprise. Slope, 500 tons; horse.
Orchard Mines Peoria Ry, 762,	J. L. Petri (local), Pekin, Iff. Slope, 80 tons; hand,
	James Green (local). Cap. \$500. Green. Slope, 1,200 fons; horse.
Otter Creek La Salle P. O. and Ry. Streator 26, 145, 784.	N. Plumb (Jessee). Cap. 825,000. Ofter Creek. Shaft, 40,000 tons; steam.
Otto Fulton Ry. 749.	Isaac Hendee, Cap, \$200 (local). Turkey Branch, Tunnel, 435 tons; hand.
	Penwell Coal Mining Co. Geo, N. Penwell, prest, treas, and mgr.; L. Schleisbach, seey. Cap. 8tk, \$50,000. Penwell Colliery. Shaft, 150,000 tons; steam. John Lee Dixon, supt.
	Springside Coal Mining Co. D. J. Overholt, prest, and treas.; Lewis Overholt, seey. Cap. stk. \$50,000. Shaft, 200,000 tons; steam. John Duddy, supt.
Pekin Tazewell Ry, 571.	Frank Lowery, Cap, \$10,000. Hawley. Shaft, 25,000 tons; steam.
11	J. T. Mace (local). Cap, \$300. Union. Shaft, 2,500 tons; horse.
Peoria Peoria Ry, 135, 142, 170, 335, 378, 571, 572, 749, 762,	Richard Cody, Martin st. Cap. 86,500. Shaft, 4,800 tons: Steam and horse,
**	Wm, P, Grant, 720 S, Adams st. Cap, \$2,000. White Oak, Green Oak. Slope; steam,
	Peter Grant & Son, 113 Depot st. John R. Grant, mgr. Cap. \$25,000. Excelsior. Shaft, 25,000 fons; steam. Geo. Waugh sr., supt.
**	Ed. Little Mining Co., 825 South Adams st. E. Little, prest, and mgr., W. E. Canty, seey and treas. Cap. stk, \$5,000. Little. Shaft, 40,000 tons; steam. T. A. Ehrett, supt.
" "	Millard & Wolsehlag, 2005 S. Adams st. Jas. Millard, ngr. Cap. stk, \$10,000. Millard's. Tunnel, 20,000 tons; steam. Stephen Wolsehlag, supt.
**	Royster Bros., 521 S. Washington st. Empire. Shaft, 30,000 tons; steam, compressed air. Moses Royster, supt.

" F. P. Schmidt & Sons (local) 1409 S. Adams st. Slope, 7,500 tons.

, Randolph Wm, Goalby & Son, No. 1 and No. 2. Shafts, 22,082 tons; steam. Wm, H. Goalby, supt.

La Salle Estate of Jas, Cahill, Cap, stk. \$40,000. Cahill, Shaft, 101,000 tons; steam, Cornelius J, Cahill, supt.

#### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMEANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE (OVENS, AND NAME OF MINE SUPERINTENDENT.
Pinckneyville Perry Ry, 319, 709, 468, 786,	G. W. Brown, Cap. \$25,000. Open pit, 25,000 tons; steam. Thos. M. Brown, supt.
**	Foust, Turner & Malone, Main st. Schulz's. Shaft, 3,000 tons; steam. C. Foust, supt.

Pleasant Pl'ins, Sangamon Springfield & Pleasant Plains Coal Co. James M. Graham, secy.; M. Connelly, treas.; John McLean, mgr. Ry, Frederick 135, 320. and supt. Cap. stk. 880,000. Pleasant Plains. Shaft, 8,487 fone; steam.

Pleasant View ...Schuyier Henry & Walter Croxton. John S. Vance, mgr. Vance's. Tunnel, 25,300 tons; hand, Ry, 538.

Pleasant View Goal Co. Thus, Allen, prest; Geo. Spillers, seey, and supt. Cap. stk, \$5,000. Pleasant View.
 Pottstown . Peoria Howarth & Taylor Bros. Cap. \$15,000. Young's and Red Bud. Drifts, 25,000 tons; horse, James Taylor,

Ry, 135. supt.

" lsnac Wautling & Son, Peoria, Ill., 611 Fourth st. Cap. \$40,000. Drift, tunnel, slope, 50,000 tons; steam:
breaker, T. J. Wautling, supt.

Prairie City. McDonough. A. Hartford. Slope, 800 tons; hand. Ry, 135.

Pre-emption ... Mercer Thomas D. Peter Docherty (local). Shaft, 2,500 tons; horse, Ry, 635,

Reading . . . . . Livingston M. J. Barackmaw & Son, 301 Main st. Cap. \$40,000. Shaft, 34,000 tons; steam. Ry, 26.

" ..... " Lukins & Cavanaugh, Cap. \$25,000, No. 2. Shaft, 35,000 tons: steam, Jas. Haddick, supt.

Ridgely... Sangamon Springfield Coöperative Coal Co., John H. Scheibner, prest., mgr. and supt.; Mrs. F. Scheibner, secy.: M. Connelly, treas. Cap. stk., \$50,000. Shaft, 40,000 tons; steam.

" ...... " Wilmington & Springfield Coal Co. Wm. Ridgely, prest.; Edward Ridgely, seey, and treas.; George C. Slinpson, mgr. Cap. stk. \$60,000. Nutt. Shafts, 100,000 tons; steam. Wm. T. Golden, supt. Ry. 538. " Clair Consolidated Coal Co., St. Louis. Mo., Fourth and Olive sts. Chas. Ridgely, prest.; George T. Cutts, seey. Ry. 538. " and treas.; J. C. Slimpson, mgr. Cap. stk. \$5,000,000. Mentor. Shaft, L30,000 tons; steam. William

Ry, 538. and treas.; J. C. Simpson, mgr. Cap. stk, \$5,000,000. Mentor. Shaft, i50,000 tons; steam. William Harding, supt.

" Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Charles Ridgely, prest.; George T, Cutts, seey, and treas.; J. C. Simpson, mgr. Cap. stk, \$5,000,000. Alma. Shaft, 100,000 tons; steam.

Riverton ... Sangamon Riverton Coal Co. R. W. Jess, prest, and treas.; W. B. Jess, seey. Cap. 8tk, \$40,000. Shaft, 300,000 by 784.

Roanoke Woodford Roanoke Mining Co. Peter Relsley, prest, and mgr.; Benjamin Belsley, scey.; Z. R. Trainer, treas. Cap. stk. \$25,000. Shaft, 46,600 tons; steam. John Gray, supt.

Rockbridge ....Greene Trill Bros. (local). Slope, 1,000 fons; horse, hand,

Rockland Grove "Mercer" P. C. Peterson (local). Parker's Run. Slope, 800 tons; horse and hand, P. O. and Ry. New Windsor 135.

Roodhouse ... Greene Victor Coal Mining Co. Ellis Briggs, prest,; Geo, E. Briggs, seey, and treas.; J. F. Cobaugh, mgr. and supt. Cap. stk. \$10,000. Victor. Shaft; steam.

Rosborough , , Randolph Rosborough Coal & Manufacturing Co., Sparta, Hl. R. H. Rosborough, prest, and mgr.; D. P. Barker, Ry. 463. secy. Rosborough, Shaft; steam, Charles Adams, supt.

Rushville . . . Schuyler John & Perry Hodge, McKee, Slope, 2,000 tons; hand, Rv 135

" John Kerr, Cap. \$6,000, Kerr's, Shaft, 10,016 tons; steam, D. Roosa, supt.

Rutland . . . La Salle Rutland Coal Co. E. Hake, prest.; Wm, G. Sutton, seey.; Wm, Malcolm, mgr, and supt. Cap. 8tk, \$200,000. Ry, 319. Rutland. Shaft, 90,000 tons; steam,

Saint David... Fulton Whitebreast Fuel Co., Chicago, Ill., 340 Rookery Bidg. J. C. Osgood, prest.; C. E. Phelps, seey.; G. W Trater, treas.; T. J. Phillips, mgr. Cap. stk. \$1,300,000, Mine E. Shaft, 40,000 tons; steam. Alex Jenkins, smit

" D. H. Williams, Cap. \$40,000. St. David. Shaft, 40,000 tons; steam. W. J. Spencer, supt.

John Perry Illinois Central Coal & Salt Co., Cairo, Ill. T. W. Halliday, prest.; M. C. Wright, secy.; S. M. Neely, mgr. Ry, 319. Cap. 8tk, \$5,000. Paradise. Slope, 120,000 fons; steam.

Saline Mines — Gallatin Andrew Reid (local). Saline, Slope, 200 tons; hand. Robert Reid, supt. Ry, Shawneetown 408, 538,

Sangamon . . . . Sangamon Hlinois Fuel Co., Chicago, Hl., 720 Phenix Bidg. Benj. Ives, v.-prest, and mgr. Cap. stk. \$150,000. Sangamon No. 3. Shaft, 100,000 tons; steam.

## COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHIERS, CORE OWERS, AND NAME OF MINES ATTERISTICATION.
TOWN AND COUNTY.	
Saratoga . Grundy P. O. and Ry. Morris 142.	Alex Bell (local). Cap. \$500. Shaft, 600 tons; horse.
Sato Jackson Ry. Bryden Junction 424.	Salo Coal & Mining Co. Tsom Chesney, prest. A. F. Kramer, seey, and supt., G. W. Phillips, treas, and mgr. Cap. 8tk, 86,000. Salo. Shaft, 240,000 tons; steam.
	Standard Coal Co. Cap. stk. \$100,000. Shatt; steam. George McCleary, supt.
	Hodgett Bros. (local). Cap. \$2,006. Slope, 20 tons; horse.
**	H. W. Lloyd (local). Cap. \$4,000. Lloyd's. Slope, 3,000 tons; horse.
** .	Sheffield Mining Co., F. H. Griggs, prest.; A. W. Bryden, secy., treas, and mgr., Cap. 8tk, \$70,000. Slope, 20,000 tons, horse.
Shelbyville . Shelby Ry, 170.	M. Brophy. Cap. \$1,200. Brophy. Shaft, 3,000 tons; horse.
	J. Richardson, Cap. \$20,000. Richardson, Shaff, 105 tons, horse,
Silby Bureau P. O. and Ry. Prince- ton 135.	George Heathcock (local). Cap. \$5,000. Coal Hollow. Shaft, 2,500 tons, horse,
Smithton St. Clair Ry. Belleville 402, 408, 700,	Johnson & Son (local). Cap. \$500. High Prairie. Slope, horse, steam. Ben, Johnson, supf.
Soperville Knox (P. O. Galesburg) Ry. 26, 135.	Essey & Son. Cap. 8tk, \$6,000. Lone Orphan. Shaft, 2,000 tons, horse. Geo, W. Essex, supt.
Sorento Bond Ry, 335, 763.	Sorento Prospecting & Muning Co., Taylor Wilhams, prest., J. B. Denny, seey, and treas., D. H. Williams, hgr., Cap. 8tk, \$20,000. Shaft, 75,000 tons, steam. D. Beveridge, snpt.
South America Saline Ry, Carriers Mills 170.	W. V. Rush. Rush. Open pit, 5,000 tons, hand.
	B. F. Hall (local). He U's Tunnel, 50 tons, hand,
Sparland Marshall Ry, 142.	Cumming & Co., Jas. P. Cumming, prest, Geo. P. Cumming, seey. A. B. Cumming, trees, and supt. Sparland. Shaft, 20,000 tons. Steam.
Sparta Randolph Ry, 463.	George Stanway (local). Stanway. Slope, sestons; hand,
***	Valley & Gulf Coal Co. Hugh Marray, prest, treas, and supt., A. A. Brown, seey. Thos. Henderson, mgr. Cap. stk, \$25,000   Eden. Shaft, 60,000 fons, steam.
Springfield Sangamon Ry, 135, 115, 319, 538, 784.	Black Diamond Coal & Tile C.). J. W. Moore, pre 1 and mg/ — Robert Solomon, seey, and treas. Cap. 81k, 815,000. Shaft, 60,000 tons, steam.
	Clear Lake Cooperative Coal Co., Seventh St. Alm, Wilkin, prest. Eben Howells, seey., Thos. W. Smith, treas, John Garrity, ngr. and supt. Gap. stk, 830,000. Clear Lake, Shaff, 150,000 tons, Steam developing.)
	Mrs. Chas. R. Hurst. Chas. H. Hurst, mgt Cap. \$100,000. Shaft, 60,000 tons, hand Thos. Taylor, supt.
	Sangamon Coal Co. F. E. Traey, pre t. and treas. A. R. Fisher, seey. Cap. 8tk, 840,000. Sangamon, Shaft, 100,000 tons, 8team. John Vose, supt.
	Springfield Coal Mining & Tile Co., 101 E. Jefferson St., Joseph Trutter, prest, and treas., Thos. R. Gray, seey., mgr., and supt. Cap., 8tk, 850,000. Springfield. Shaft, 80,000 tons, steam.
	Springfield Junction Coal Co., 314 S. Flifth St. Harris Hickox, pre-t, and ngr. Thomas Edwards, seey., Lee Hickox, treas, and suptcap. stk \$15,000. Shaft, 48,000 tons; steam.
	Woodside Coal Co., Edwards Brown, prest, Wm. H. Staley, seey, and mgr., Staart Brown, treas. Cap., 8th, \$10,000. Woodside, Shaft, 75,000 tons, steam, Andrew Reed, supt
Spring Valley Bureau Ry, 135, 142, 450.	Spring Valley Coal Co. M. H. Taylor, seey, and treas.; S. M. Dalzell, mgr. Cap. 8tk, \$2,500,000. Nos. 4, 2, 3 and 4. Shaft, 650,000 tons, steam. J. B. Stone, supt.
Staunton Macoupin Ry, 335, 784.	
Stone Fort . Saline Ry 170.	H. P. Sittig (local). (cap. 8200. Sittig. Tunnel, 3,000 tons; hand.
	P. B. Stagner (local — Johnson, Tunnel, slope, 200 tons; hand,
	Stone Forf Mineral Co., J. W. Rose, prest., D. W. Choisser, seey, and mgr. B. D. Grace, treas. Cep. stk. \$1,000. Stone Fort.
Streator La Salle Ry, 26, 135, 145, 784.	John S. Baer & Co. Shaft, 25,000 tons. John Marshall, 80 pt.
·· n	Chicago, Wilmington & Vermillon Coal Co., Chicago, Ill., 475 Dearborn St., Room 39. Francis Bartlett, prest., A. L. Sweet, seey, and ngr.; Thos. A. Lemnon, freas. No. 1. Shaft, 125,000 tons steam. No. 3. Shaft, 250,000 tons, steam, electricity. K. D. Fletcher, supt.
	Coal Run Coal Co., Opera House Block. N. Plumb Jessee). Cap. \$1,000. Off a Shaft, 75,000 tons, steam.
	Richard Evans Shaft 60,000 tons steam

#### COAL-BITUMINOUS-(CONTINUED)

	COAL-BITUMINOUS-(CONTINUED)
LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OPFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2:00 POUNDS, KIND OF POWER USED,  COAL BERGARES, WASHERS, ONE OVENS, AND NAME OF MINE MUFERINTENDENT.
TOWN AND COUNTY.	
Streator La Salle (Continue d.)	Wm, Howe & Co., Rooms 4 and 5 Schlitz Bldg. Wm, Howe, prest, and mgr.; H. H. Charlton, seey, and treas. No. 1. Shaft, 10,000 tons: steam. E. Harrison, supt.
44	Wm, Lawton, Slope, 1,500 tons; horse.
**	Munts & Sons (local), Cap. \$500. Tunnel, 4,000 tons; horse.
99 99	Price & Jones, 306 Sumner st. Shaft, 10,000 tons.
**	Samnel Simpkin, 301 Main st. Cap. \$7,000. Shaft, 36,000 tons; steam,
Summum Fulton Ry, Astoria 135,	
SunfieldPerry Ry, Du Quoin 319.	Sun Coal & Coke Co. J. D. Buchan, prest.; A. M. Revelle, secy.; Wm. Jackson, trens.; Robert Dick. mgr. and supt. Cap. stk. \$6,000. Sun. Shaft, 40,000 tons; steam.
Swan Warren (P. O. and Ry, Youngstown) 135.	Thomas Lee & Son (local). Cap, \$150. Shaft, 700 tons; horse.
**	Henry Smith, Cap. \$5,000. Slope, 5,000 tons.
Ry. Greenview 145,	William Parkin (local), Cap. \$7,000. Farmer's, Shaft, 2,600 tons; horse,
Ry. 145.	Tallula Coal Mining Co. James Hutton, prest., mgr., and supt.; W. L. Robertson, seey.: Thomas Hutton treas. Cap. stk. \$20,000. Shaft, 26,000 tons; steam.
Taylorville Christian Rv. 538, 784.	Taylorville Coal Co. R. Wilkinson, prest.; D. D. Shumway, seey, and mgr.; A. G. Barnes, treas, Cap. 8tk, \$50,000, No. 1 and No. 2. Shaft, 175,000 tons; steam. S. Ainsworth, supt.
Tilden, Randolph Ry, 709,	Tilden Coal Co. R. K. Torrens, prest., treas, and supt.; J. S. Lindsey, secy.; M. M. Catheart, mgr. Capstk, \$10,000. Tilden. Shaft, 15,000 tons; steam.
	Aaron Newton (local). Drift, 320 tons; hand,
** **	Henry Newton (local). Spoon River. Tunnel, drift, 160 tons.
	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Ridgely, prest.; Geo. T. Cutts, seey and treas.; J. C. Simpson, mgr. Cap. slk, \$5,000,000. Trenton. Shaft, 100,000 tons; steam. Win Harding, supt.
Troy Madison Ry, 563,	Consolidated Coal Co., St. Louis, Mo., Fourth and Olive sts. Chas. Ridgely, prest.; Geo. T. Cutts, seey and trens.; J. C. Simpson, mgr. Cap. stk. \$5,000,000, Troy. Shaft, 100,000 tons; steam. Brookside Shaft, 60,000 tons; steam. Wm. Fletcher, sup.
	Jackson Davis (local). Cap. \$150. Shaft, 950 tons; horse.
46	James Rose, Cap. \$500. Rose's, Shaft, 3,000 tons; horse,
Viola Mercer Ry, 135,	G. W. Martin (local). Cap. \$7,000. Pope Creek. Shaft, 3,600 tons; horse.
Ry, 145, 335,	Virden Coal Co., C. A. Starne, prest.; Wm. Graham, seey., treas., mgr, and supt. Cap. stk. \$40,000. Virden. Shaft, 100,000 tons; steam.
Virginia Cass Ry, 335.	Virginia Coal Co., Andrew Morton, prest.; Samuel W. Bailey, secy, and treas.; Robert Morton, ngr., and snpt. Cap. stk. \$10,000. Virginia. Shaft, 12,000 tons; steam.
	Geo, E. Boostron (local). Boostron. Shaft; hand.
11	H. & J. Taylor. Shaft; hand.
- "	Wataga Brick, Tile & Coal Co. W. S. Dewey, prest.; Charles Pester, seey.; H. P. Wood, treas.; H. Taylor, mgr, and supt. Cap. stk. \$25,000. Wataga. Shaft, 5,000 tons; horse.
** **	Wataga Coal Mining Co. Hamilton Taylor, prest, and supt.; C. G. Bangston, mgr. Wataga. Shaft, 490,000 tons; horse and hand.
Wenona	Wenona Coal Co. A. S. Sherwood, prest.; W. E. Monser, secy, and treas.; E. L. Monser, mgt, and supt Cap. stk, \$15,000. Wenona No. 1. Shaft, 60,000 tons; steam.
	E. Little, Peoria, Ill., 825 S. Adams. Little. Shaft, 60,000 fons; steam. W. Small, supt.
West JerseyStark Ry, Toulon 635.	John Catton (local). Tunnel, 800 tons; hand,
Westville Vermilion Ry, 146, 170,	Kellyville Coal Co., Danville, Ill., 19 E. Main st. W. J. Calhoun, prest.; W. L. Runyan, secy.; M. Kelly, treas, and mgr. Cap. stk. \$500,000. Shafts, 290,000 tons; steam. James Doughty, supt.
** **	Pawnee Coal Co., Chicago, Ill., 935 Rookery Bldg. B. Himrod, prest, and mgr.; P. W. McKay, seey, and treas. Cap. stk, \$25,000. Pawnee. Shaft; steam. W. W. Keefer, supt.
Wilderman8t, Clair (P.O.Belleville) Ry.709	T. & H. Mining Co., St. Louis, Mo., 311 Olive st. Crittenden McKinley, prest.; E. B. Hull jr., secy.; W. S.
	W. H. Bates & Co. Shaft, 13,000 tons; steam, W. H. Bates, supt.
Williatt	Durant Coul & Colo Co. Pooria III. 11s V. Adams. J. P. Cook prest: Wm. Jack, seey.: H. C. Carrick

Wolcott Peoria Ry, Reed City 762.

Ry, Reed City 762.

Worden Ry, 784.

Madison Ry, 784.

Madison Ry, 784.

Millinois Coal & Coke Co., Peoria, III., 118 N. Adams. J. P. Cook, prest.; Wm. Jack, seey.; H. C. Carriek, tras.; Jas. Stirrat, mgr. Reed Mines No. 2. Slope, 300,000 tons; steam and electricity. John Q. Ferguson, supf.

Worden Addison Ry, 784.

Madison Ry, 784.

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#### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. Courty

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

AND Town **Vates City** 

.. Knox Frank Chrisman (local). Cap. \$10,000. Chrisman. Shaft, 1,200 tons; steam.

Ry. 135. Youngstown, Ry, 135,

Town

Warren Mrs. Susan Romine (local). Slope, 200 tons; horse,

Thos, Wearmouth (local), Wearmouth, Drift, 3,000 tons, hand.

### FIRE CLAY

Location of Mine or Bank, Railways, Water Routes, and Shipping Point.

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERISTENDENT

Bardolph Ry. 135,

McDonough Bardolph Fire Clay Works, C. J. Chandler, prest., J. E. Chandler, seey. Cap. 8tk. \$60,000. Shaft and open pit; steam.

Pulaski Rv. 319. Southern Illinois Fire Clay Co. Geo. B. Johnston, prest., Edgar S. Low, secy, and treas., J. W. Hunsaker, mgr. Cap. stk, \$900,000. Fire clay. Open pit; hand.

#### LEAD AND ZINC

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2.00 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Hardin Argyle Fluor-spar & Lead Muring Co., Washington, D. C., 1411 F. st., Argyle, Fluor-spar, lead, 6,000 tons,

Hllinols Fluor-Spar & Lead Co., Chicago, Ill., 57 Board of Trade Bildg. Geo, G. Mullins, prest.; D. F. Cameron, seey.; C. T. Trego, treas, and mgr. Cap. 8tk, 820,000. Hllinols. Vluor-spar, lead. Shafts, drifts. W. H. Mullins, supl.

#### SALT

LOCATION OF MINE OR WELL. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Saint John

Rosichare Rv. 533.

Perry Illinois Central Coal & Salt Co., Cairo, Ill., Obio levee. T. W. Halliday, prest. M. C. Wright, seey., S. M. Neely, mgr. Cap. stk. \$5,000. Packing salt. Wells, steam.

## STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point,

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC. AND NAME OF MINE SUPERINTENDENT

Kane C. Riddle & Co., Broadway and Washington st. Cap. \$30,000. Aurora, limestone. Electricity: mill. Dell Cooley, supt. Aurora ... Ry. 135,

Boskydell, Ry, 319,

"Jackson Carbondale Brown Stone Co., Chicago, Ill., 578 S. Morgan et. John Rawle, prest, and treas.; Backus, v.-prest.; M. B. Madden, secy. Carbondale. Open; steam, mill. Jas. J. Jones, supt.

Grafton Ry. 458, 708,

Jersey Grafton Quarry Co., 8t. Louis, Mo., No. 445 Locust st., Room 504. James Black, prest.; John S. Roper, seey, and freax. Cap. stk. \$00,000. Grafton, limestone, magnesia. Open pit, 100,000 tons; steam, horse, hand, Chas, Brainerd, supt.

let . . . Will Kirkpatrick, Howk & Massey, Geo, Massey, prest., A. J. Howk, seey, and treas.; J. O. Kirkpatrick, Ry, 26, 142, 145, 245. mgr, and supt. Cap. stk. \$1,200. Limestone. Steam, mill.

Ry, 26, Lemont

Cook Phoenix Stone Co., Chicago, Ill., 35 Lawrence st., John W., Gill, prest, and treas.; August Baum secy.; Martin Delaney, mgr., and supt. Cap. 8tk, \$50,000. Phoenix. Open pit, 100,000 tons, steam. Amoust Banmann. Will Sanger, Moody & Steel Stone Co., dollet, Hr. H. A. Sanger, prest.; C. C. Moody, secy.; Sanger Steel, 245. treas. Cap. stk. \$80,000. Sanger, limestone, magnesia. Steam.

Lockport . . . Will Ry, 26, 135, 142, 145, 245.

Millington Kendall American Silica Sand Co., Cleveland, Ohio, Society for Savings Bldg. Levi H. Malone, prest.; F. M. Atterholt, seey.; H. W. Gebaner, treas. Cap. 8tk, \$150,000, American, Silica, Sand. Open pit, 120,000 tons; steam; mill. B. F. Ewing, supt.

Peoria . . . . . Peoria Ry. 135, 142, 170, 335, 378, 572, 749, 762,

Peoria I, Mantz & Son, 334 Woodner Bidg. (local). Swords, limestone. Open pit, 46,000 tons; steam. Ed. Lan-70, 335, ulng, supt.

Alexander Southern Illinois Lithograph Stone Co., Pulaski, Ill., Geo, B., Johnston, prest., Edgar S. Law, seey, and treas.; J. W. Hunsaker, mgr., Cap. stk. \$500,000. Lithograph stone. Open pit; steam (developing). Rv. 458, 463,

# INDIANA

## COAL-BITUMINOUS

RAILWAYS, WATER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
AND SHIPPING POINT.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Town and County.	
Alfordsville,, Daviess Ry, Loogootee 538,	J. A. McCord (local). Shaft; horse,
ht	Scales & Huef (local). Sugar Creek. Shaft, open pit; horse and hand.
Asherville Clay Ry, 563,	Block Coal Co., Brazii, Ind. No. 9. Shaft, open pit; steam. H. Payne, supt.
Ayrshire, Pike Ry, 402,	David Ingle, Oakland City, Ind. Cap. \$50,000. Ayrshire. Slope, shaft, 90,000 tons; steam; breaker, washer. 54 coke ovens. John Jennings, supt.
Bicknell Knox Ry, 563,	Bicknell Coal Co., Geo, W. Fuller, prest.; J. M. Freeman, seey, and treas. Cap. stk. \$10,000. Bicknell. Shaft; steam. R. M. Freeman, supt.
Blackburn Station Pike Ry, 256,	F. B. Posey, Evansville, Ind., 4t and 43-B. M. A. Bidg. Cap, \$10,000, Blackburn, Slope, 20,000 tons; steam: washer, 9 coke ovens, capacity 1,000 tons. J. D. Jarvis, supt.
4	Posey Coöperative Mining Co. Emanuel Fair, prest.; Eugene O'Brien, secy, and treas.; Geo. Ferris, ngr. Cap. stk. \$20,000. Blackburn. Slope, 150,000 tons; steam; 9 coke ovens.
Boonville	Lander Wooley Coal Co., Evansville, Ind. E. P. Huston, prest.; W. H. Merithen, seey, and treas. Cap. \$30,000. Lander, Wooley. Slope, 48,000 tons; steam. Robert Lander, supt.
**	W. W. Reynolds (local). Cap. \$600. Reynolds. Shaft, 1,400 tons; horse.
6	E. Whitmer (local). Whitmer. Shaft, 500 tons; horse.
Brazil	Brazil Block Coal Co., Chicago, Ill. Gartshire No. 1. Shaft, 60,000 tons; steam, Jas. McCloud, supt.
"	Brazil Block Coal Exchange, Chicago, III., The Rookery, K. R. Brockenbrough, prest, and treas.; Charles R. Abbott, seey. Cap. stk, \$50,000. Morris. Shaft, 50,000 tons; steam. John Erzinger, supt.
44	Centennial Coal Co. C. B. Reddie & Son. Cap. \$6,000, Centennial, Shaft; steam (developing).
"	Crawford Coal Co., Terre Haute, Ind., 710 N. Second st. A. J. Crawford, prest.; J. P. Crawford, seey, and treas. Cap. 8tk, \$15,000, Crawford Nos. 2, 3 and 4, Shaft, 100,000 fons; steam, W. W. Risheo, mgr. and supt.
**	Jackson Coal & Mining Co. M. A. Johnson, prest.; D. W. Minshall, seey.; M. H. Johnson, mgr. Cap. stk. \$50,000. Nickel Plate. Shaft, 60,000 tons; steam. W. S. Houston, supt.
**	Nickel Plate Coal & Mining Co., M. A. Johnson, prest.; W. S. Houston, seey.; M. H. Johnson, mgr. Cap. stk. \$50,000. Chicago. Shaft, 60,000 tons; steam.
-0	Otter Creek Coal Co. Daniel Corkery, prest.; A. H. Zimmerman, Seey.; W. H. Zimmerman, treas, and gen, mgr. Cap. stk. \$50,000. Nellie. Shaft, 75,000 tons; steam. John Mushett, supt.
	Schrepferman Coal Co., C. Schrepferman, prest, and treas.; N. Schrepferman, seey., mgr, and supt. Cap. stk. \$30,000. Birch Creek. Shaft, 175 tons; steam; breaker.
	John Triplett. Slope, 15,000 tons,
Cannelburg Daviess Ry, Clarks 538,	Mutual Mining Co. Daniel Davis, prest.; James Nolan, secy.; Martin Cahill, treas., mgr. and supt. Cap. 8tk. \$5,600; indv. cap. \$6,000. Mutual. Shaft, 17,500 tons; steam.
Carbon,	Eureka Block Coal Co., Chicago, Ill., 1335 State st. A. H. Woodruft, prest.; John Brownlee, seey, and supt.; M. W. Brownlee, treas.; Edward Wilton, nigr. Cap. stk. \$100,000. Banner. Shaft, 50,000 tons; steam.
Ry, Williamsport 784.	John T. Carlson (logal). Cap. \$3,000. Carlson. Slope, 665 tons; hand.
Ry. 256,	Carlisle Coal Co. Geo, Ward, prest.; Geo, Phipps, secy.; M. Zester, mgr. Cap. stk. \$10,000. Carlisle, Shaft; steam.
Centre Point Clay Ry. Brazil 146, 170, 404.	
**	Williams & Givens, John L. Williams, prest., mgr, and supt.; Alfred Connett, secy.; R. Givens, treas, Cap. \$2,000. Vandalia, Shaft, 24,000 tons; steam.
Clay City Clay Ry, 256.	Chicago & Indiana Block Coal Co., Terre Hante, Ind., 523 Ohio St. J. Smith Talley, prest, and mgr.; Leslie D. Thomas, seey: Demas Benning, trens. Cap. 8tk. \$200,000. Harrison. Shart, 60,000 tons; steam, compressed air. Thomas Faulds, supt.
**	Diamond Block Coal Co., Chicago, III., 159 La Salle st. John Andrew, prest.; Charles F. Keeler, seey., treas, and mgr. Cap. stk. 860,000. Diamond. Shaft, 150,000 tons; steam. Peter Andrew, supt.
Clinton Vemillion Ry, 146.	Hazel Creek Coal Co. T. C. Keller, prest.; N. G. Wright, secy.; N. C. Anderson, treas., mgr. and supt. Cap. stk, \$30,000. Hazel Creek, Fern Hill. Slope, shaft, 200,000 tons.
**	Norton Creek Coal Mining Co., Milwankee, Wls. H. M. Benjamin, prest.: H. S. Klein, seev.; C. W. Moody, treas, and mgr. Cap. stk, 850,000, Norton Creek, Clinton No. 3. Shaft, slope, drift, 200,000 tons; steam. Charles F. Walker, supt.
	Thompson Hill Mining Co. C. M. Daggett, prest. Charles H. Merrill, treas, and supt. Cap. stk, \$50,000, Thompson Hill. Slope, 24,000 tons; steam.
Coal Bluff Vigo Ry, 146, 170,	Conl Bluff Mining Co., Terre Haute, Ind., 525 Ohio St. J. Smith Talley, prest.: James W. Landrum, Seey.: L. D. Thomas, treas;; R. W. Rippetoe, mgr, and supt. Cap. stk, 86,500. Hereales and Star. Shafts, 75,000 Ions; steam.
10 mm	Otter Creek Mining Co. Cap. \$15,000. Otter Creek. Slope, 35,000 tons; horse. Isaac Debo, supt.
Coal City . Owen	Eagle Creek Mining Co. J. F. Hyatt, prest, and treas.; J. E. Conley, secy. Cap. \$30,000. Eagle Creek.

### COAL BITUMINOUS (CONTINUED).

LOCATION OF MINE, RAILWAYS, WATER ROUTES : AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOC NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF FOWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE NUFERINTENDENT.
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Coal City (Continued.) Owen J. F. Hyatt, Cap. \$10,000. Eagle Creek. Shaft, 15,000 tops; steam. Josiah Wells, supr. Coal Creek Fountain Samuel Belemy (local). Slope, 150 tons; horse,

Randolph & McKinney, Cap. \$40,000. Syndicate. Slope, 4,800 tons; steam,

Spencer J. N. Mason Jocal), Cap. 8500, Mason, Shaft, 103 tons, hand, Ry. 402.

" J. R. Thorp (local). Flinthill. Slope, 800 tons; hand, De Forest Ry, 402, Warrick D. A. De Forest and others, De Forest. Shaft, 10,000 tons; steam, Wm. Baum, supt.

Owen Laneaster Block Coal Co., Terre Haute, Ind., 921 Wabash av. John Andrew, prest.; Robert Andrew, 6. seey, and treas; James Andrew, ngr. Cap. 84k, \$150,090. Laneaster. Shaft, 50,000 tons; steam, James F. Andrew, supt. Ry, Clay City 256,

Suffivan Dugger Cooperative Mining Co. Arthur Davison, prest; Cairy LittleJohn, seey, and freas. Cap. 8tk. \$10,000. Shaft developing . J. E. Griffith, supt. Dugger Ry, 563.

Andrew McCall (local). Shaft, horse, steam,

John Payne (local), Faith's, Slope; hand, Diamond Coal Mining Co., 203 Upper Fourth st. Louis Koester, prest., treas, and mgr.; E. W. Saupers, secy. Cap. stk. 8t2,000. Diamond. Shaft, 36,000 tons; steam. Geo. Bonenberger, supt. Ry, 256, 402, 408, 536,

Evansville Cooperative Mining Co., V. M. C. A. Bildg. Wm. M. Madden, prest., San'l Quinn, seey, and supt. Cap. 8tk, \$20,000. Cooperative. Shaft, 86,000 tons, steam.

First Avenne Coal Maning Co., 323 Upper Third st. C. C. Thomas, prest, and mgr.; R. H. Kellogg, seey, and treas. Cap. stk. \$25,000. First Avenue. Shaft, 32,000 tons; steam. William Dodds, supt.

John Ingle & Co., 210 4 pper Second st. Geo, S. Ingle, mgr. Cap. 875,000. Ingleside. Shaft, 75,000 tons steam. Joseph Gibson, supt. Sunnyside Coal & Coke Co., 27 Upper Third st. D. J. Mackey, prest.; E. P. Huston, seey, and treas, John E. Woolley, mgr. Cap. stk. 800,000. Sunnyside. Shart, 66,721 Ions; steam. Jabez Woolley sr.

Sallivan Farmersburg Coal & Mining Co., Sullivan, Ind. Blackford Condidt, prest, and treas., Yoah Crawford, seey., mgr, and supt. Cap. stk. 817,800. Farmersburg. Shatt. 22,000 tons; steam. Farmersburg . Ry. 256.

Farn worth 8 Ry, Lynton 322, Sullivan Hancock & Conkel, Cap. \$15,000. Bunker Hill. Shaft, 38,159 tons; steam. W. H. Conkel, supt.

Fontanet Ry, 146, 170. Vigo Coal Bluff Mining Co., Terre Hante, Ind., No. 525 Ohio St. J. Smith Talley, prest., James W. Landrum, sery, L. D. Thomas, treas.; R. W. Rippetoe, ingr., and supt. Cap. 8tk. 86500. Edgar and Diamond Shafts, 75,000 tons; steam.

Ed. Davis, Cap. \$1,000. Peacock, Slope, 30,000 tons, horse,

Western Indiana Coal Co., Terre Haute, Ind., 523 Ohio St. J. Smith Talley, prest.; Wm. E. Eppert, secy., treas, and mgr. Cap. stk. \$25,000. Shaft, steam (developing). Jacob Lewis, supt. Grant Crossing Vigo (P. O. name Burnett) Vigo McCulough & Kitzing Co., Stamton, Ind. C. J. McCulough, prest, and secy., Geo. J. Kitzing, treas, and nett) mgr. Cap. stk. \$15,000. Lone Star. Slope, 30,000 lons, horse. James Smith, supt.

Ry. 146, 170 Hymera Rv. 146, 256. Sullivan Old Pittsburg Coaf Co., Chleago, Ill., 41t and 413 Tacoma Bldg. James N. Buchanan, prest, and treas, De Witt C. Butts, seey. Cap. 8tk, 855,000. Harrison. 8haft, 455,000 tons; electricity. W. I. Mordock

M. Stark, Cap. \$2,000. Little Pittsburg. Shaft, 18,000 fons; horse, Jasper . Ry. 402, 710, Dubois Eckert, Magner and others. Cap, \$10,000. Slope, 4,000 tons: horse,

Win, Haller, Haller, Stope, 150 tons, hand,

Knightsville Clay D. H. Davis Coal Co. D. H. Davis, prest.; Charles E. Matson, secy, and treas, Cap. stk. \$20,000, World's Fair. Shaft, 100,000 tons; steam. Joseph Murby, supt. Ry. Brazil 146, 563.

Zeller & Sigler Coal & Mining Co. Wm. M. Zeller, prest, mgr. and supt.: F. M. Sigler, seey.; C. M. Zeller, treas. Cap. 8tk. \$100,000. Columbia. Diamond. Vandalia. Shaft, 100,000 tons; steam.

Lincoln City Spencer Henry Schafer, Cap. \$4,500. Schafer, Shaft, 12,000 tons; steam, Geo. B. Buflock, mgr, and supt. Tev. 402.

Linton Greene Island Coal Co., Indianapolis, Ind., 84 E. Market St. A. M. Ogle, prest.; W. W. Hubbard, seey, and treas.; E. H. Scott, v-prest. Cap. 83k, \$100,000. Island City, Nos. 1, 2, 3. Shaft, 500,000 tons; compressed air. John Hewitt, spil. Ry, 322, 584.

18land Valley Coal & Mining Co., Wm. H. Walton, prest, and supt.: Hirman Turny, seey.; Wm. H. Griffin, treas. Cap. stk. \$60,000. Island Valley. Shatt, steam (developing).

Summit Coal Co., Bloomfield, Ind. F. M. Dugger, prest, and mgr., J. C. Gilfiland, seey.; H. T. Neal, treas. cap. stk, 850,000. Summit. Shaft, 37,707 tons; steam. John Larkey, supt. Lattle's Ry, 256, Pike S. W. Little, Evansville, Ind., 329 Upper Third st. Cap. \$50,000. Little's, Shaft, 100,000 tons; steam;

New Kentucky Coal Co., Chicago, Ill., 245 Dearborn St. P. D. Whitehead, prest.: M. H. Walker, v.-prest.: Thos. J. Whitehead, Secy. and treas. Cap. stk. \$100,000. Lyford. Shaft, 100,000 tons, steam. O, and Ry, Clinton 146.

Lynton ... Sulliva (P. O. Cass) Ry, 322. Lynton Coal & Coke Co., Sullivan, Ind. W. H. Alley, prest.: P. H. Blue, secy.; M. B. Wilson, treas.; G. C. Richards, mgr. Lynton. Shaft, 30,000 tons. steam. B. D. Johnson, supt.

"Vigo Peter Krackenburger (local), W. H. Larimer, mgr. Cap. \$4,000. Larimer. Shaft, 5,800 tons, steam,

## COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superinterdent.
Town and County.	
Mineral City Greene ity, 404, 408.	Levi D. Burcham. Cap. \$100. Burcham. Tunnel, 600 tons; hand.
	M. Hildebrand. Cap. \$100. Hildebrand. Slope, pit, 100 tons; hand.
**	J. M. Vest, Cushman, Tunnel, 200 tons; hand,
NewburgWarrick Ry. 533, 563.	John Archbold, Evansville, Ind., cor. Bland av. and Walnut st. Star. Shaft, 24,000 tons; steam. George Archbold jr., sapt.
"	P. Ehrlich & Co., Indianapolis, Ind. Peter Ehrlich, prest.; Christ Ehrlich, treas, and supt. Cap. 8tk. \$75,000. Newburg. Shaft, 60,000 tons; steam; breaker.
n	Gartshire Coal & Mining Co. Isaac McIntosh, receiver. Newburg No. 2. Shaft, 140,000 tons; steam.
New PittsburgSullivan (P. O. Alum Cave) Ry. 146, 256.	New Pittsburg Coal & Coke Co., Chicago, Ill., 129 Dearborn st. D. M. Cummings, prest.; John K. Siefert, seey., treas, and gen. mgr. Cap. stk. \$300,000. Pheenix. Shaft, 150,000 tons; steam, compressed air; washer, 40 ovens, capacity 12,000 tons. John P. Gilmore, supt.
Oakland City Gibson Ry, 402,	Oakland City Coal Co. John S. Jeter, prest.; John D. Kell, secy, and treas.; Wm. Cockrum, mgr. Cap. s(k. \$4,000. Oakland City. Shaft; steam. James Dewey, supt.
Perth Clay Ry, Carbon 170.	Coal Bluff Mining Co., Terre Haute, Ind., 525 Ohio St. J. Smith Talley, prest.; Jas. W. Landrum, seey.; L. D. Thomas, treas.; R. W. Rippetoc, mgr. and supt. Cap. 8tk, \$6,500. Anchor. Shafts, 7,500 tons; steam.
" "	Hoosier Coal Co., Chicago, Ill., 935 Rookery Bldg. Bernard Himrod, prest, and mgr.; A.S. Bertolet, secy, and treas. Cap. stk. \$20,000. Hoosier. Shaft, 50,000 tons; steam. W. W. Keeler, supt.
Petersburg Pike Ry, 256.	Read & Myer, cor, Walnut and Seventh sts. John Read, prest, treas., mgr. and supt.; John Myers, secy. Cap. \$1,500. Jenny Posey. Shaft, 20,000 tons; horse.
Pratt Clay P. O. & Ry. Carbon 170.	Coal Bluff Mining Co., Terre Haute, Ind., 525 Ohio St. J. Smith Talley, prest.; Jas. W. Landrum, seey.; L. D. Thomas, treas.; R. W. Rippetoe, mgr. and supt. Cap. stk. 86500. Pratt. Shafts, 75,000 tons; steam.
Riley Vigo Ry, 146.	E. J. Gillespie. Cap. \$2,000. Forest Hill. Shaft: steam.
Shelburn Sullivan Ry. 256.	Currysville Coal Co. G. I. Grammer, prest.; I. H. Wooley, secy., treas, and supt. Cap. 8tk. \$50,000. Currysville. Shaft, 50,000 tons; steam, compressed air.
44	Richmond & Halberstadt (local). McNally. Shaft; horse.
	Shelburn Coal Co. Geo, C. Richards, prest., mgr. and supt.: H. E. Bell, secy, and treas. Cap. stk. \$30,000. Shelburn. Shaft, 26,499 tons; steam.
Silverwood Fountain Ry. 763.	Shipman Coal Mining & Manufacturing Co., Detroit, Mich., No. 74 Griswold St. O. W. Shipman, prest.: W. C. Maybury, seey.: Francis F. Pathus, treas.; J. N. Dexter, mgr, and supt. Cap. 8tk, \$100,000. Shipman. Shaft; Istam (developing).
Staunton Clay Ry, 748.	Earlich Co., Turner, 1nd. Cap. \$25,000. Newbury. Shaft, 40,000 tons; steam. Christian Earlich, supt.
**	John Kempf (local). Cap. \$100. Tunnel, 400 tons; hand.
**	Joseph Somers, Cap. \$10,000. Jumbo, San Pedro. Shaft, open pit, 30,000 tons; steam.
11	Joseph Whallon (local), Cap. \$700. Black Hills. Open pit, 500 tons; horse, hand.
Troy. Perry Ry. 402.	Bergenroth Bros. Cap. \$10,000. Troy. Shaft, 10,000 tons; steam. Samuel Priest, supt.
Vincennes, Knox Ry, 170, 256, 538.	Vincennes Coal Co. Job Freeman, prest., mgr. and supt.; C. G. McCord, secy, and treas. Cap. stk \$40,000. Shaft; steam (developing).
Washington Daviess Ry, 538.	Cable & Co. Cap, \$50,000. M. Valley, Nos. 4, 6, 7. Shaft, 140,000 tons, steam. Joseph Small, supt.
Williamsport Warren Ry, 784.	John Carlyon, Carbondale, Ind. (local). Carlson. Slope, 400 tons; hand.
Winslow Pike Ry, 402.	Phelps Bros, (local). Phelps. Open jut, hand.
** **	William Shaw (local). Shaw. Slope, 200 tons; horse.
**	D. G. Smith (local). Hollow. Slope, 8 fons; hand.
Worthington,Greene Ry. 146.	A. M. Bucher (local). Bucher. Slope, 300 tons; hand.
**	David S. Fulke (local), Slope, 300 tons; hand,
	George Heinemann (local), Heinemann, Slope, 20,000 tons; hand.

## IRON

LOCATION OF MINE.	The state of the s
RAILWAYS, WATER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
AND SHIPPING POINT.	NAME OF MINE, KIND OF (DRE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
AND SHIFFING TOME	OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	

Bloomfield.... Greene · Bloomfield Iron Ore Co. F. M. Dugger, prest.; John A. Pate, secy.; L. H. Jones, treas. Cap. stk. \$20,000. Ry, 404.

# THE MINING DIRECTORY—MINES.

### KAOLIN

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SRIPPING POINT. AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTFUL IN TONG OF 2,000 FOUNDS, KIND OF FOWER USED, ETC., AND NAME OF SUPERINEEDENT.

Huron . Ry. 538,

Lawrence Kaolin Mining Co., Chicago, Ill., 867 Chamber of Commerce, P. C. Hamilton, prest, and treas, Henry P. Lowe, v.-prest.; F. H. Hendrick, seey.; John M. Partlom, ngr. Cap. 8tk. \$1,000,000. White Pearl, kaolin. Thumel, 9,000 tons; horse, steam. Geo. D. Moos, supt.

## LEAD AND ZINC

LOCATION OF MINE RAILWAYS, WATER ROUTES

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock.

LOCATION OF MINE RAIL WORL QUARRY TOWN AND COUNTY.  Bedford Ry, 256, 404, 538.  "Bedf "B	power Used, Smelters, Etc., and Name of Mine Superintendent.  Shi Mineral Mining Co. Samuel L. Milroy, prest.; Waldo W. Williams, seey., James G. Blythe, treas.; Hram Kerlin, vprest. Cap. stk. \$4,000. Lead and zine (developing).  S.E. MARBLE, GRANITE AND ONYX  May of Company or individual, Location of Physicipal Office. Names of Officers, Capital Stock.  Name of Wine on Quanny, Kind of Stock. Rind of Mine of Quanny, Annual Outfert in Tons of 2,000 Fourns. Kind of Power Used, Stock of Mine Superintendent.  Bedford Stone Co. Chicago, Ill., 576 S. Morgan st. John Rawle, prest, and mgr.: T. C. Delner, seey and treas. Cap. stk. \$100,000. Sandstone. Sleam, mill. J. J. Jones, supt.  ford Steam Stone Works. D. V. Johnson, prest, mgr. and supt.; E. B. Thornton, seey, and treas. (ap. stk. \$10,000. Bedford, Innestone. Open plt. 1,000 fons, steam; mill.  ford Stone Co., Indianapolis, Ind., 42 Thorpe Block. J. W. Chipman, prest.; E. H. Hall, seey, and press. Cap. stk. \$10,000. Office limestone. Shaft, open plt, 40,000 fons; steam; mill. J. E. Evans, supt.  ford Stone Quarries Co. C. D. Hank, prest., W. C. Winstandley, seey, and treas.; S. B. Vorrs, mgr. (ap. stk. \$1,000,000. Onlife limestone. Open plt. 10,000 fons; steam; mill. J. E. Evans, supt.  superintendent J. J. Stock, J. J. B. Stone, J. J. Thornton, seey, T. V. Thornton, ngr. Cap. stk. \$1,000,000. Bodenschaftz, treas. Cap. stk. \$2,000. Bodenschaftz, oddite limestone. Open pit, 4,500  only, Scham; mill. A. M. Brown, supt.  ago & Bedford Stone Co., Chicago, Ill., 110 The Rookery, N. A. Bodenschaftz, Open pit, 4,500  only, Scham; mill. A. M. Brown, supt.  ago & Bedford Stone Co., Chicago, Ill., 110 The Rookery, N. A. Bodenschaftz, Open pit, 4,500  only, Scham; mill. A. M. Brown, supt.  ago & Bedford Stone Co., Chicago, Ill., 110 The Rookery, N. A. Bodenschaftz, Open pit, 4,500  only, Scham; mill. A. M. Brown, supt.  ago & Bedford Stone Co., Chicago, Ill., 110 The Rookery, N. A. Bodenschaftz, Open pit, 4,500  only, Scham; mill. A. M. Brown, supt.  ago & Bedford Stone C
LOCATION OF MINE RAILWOON, QUARRY MOTERS AND SHIPPING FOINT. TOWN AND COUNTY.  Bedford Ry, 256, 404, 538.  "Bedf "	NE, MARBLE, GRANITE AND ONYX  AMP OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,  NAME OF WINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TORS OF  200 POUNDS, KIND OF FOWER USED, STONE OR MAINLE MILES, LIMERILING AND  CARCITY, ETC., AND NAME OF MINE SUPPLINITESINET.  BE Redford Stone Co., Chicago, Ill., 576 S. Morgan St. John Rawle, prest, and mgr.; T. C. Deiner, seey, and treas. Cap. Stk. \$10,000. Sandstone. Steam, mill. J. J. Johns, Supt.  ford Stone Works. D. A. Johnson, prest., mgr. and supt.; E. B. Thornton, seey, and treas, ap. 3tk. \$10,000. Bedford, limestone. Open plt. 10,000 tons, steam; mill.  ord Stone Q., Indianapolis, Ind., 42 Thorpe Riock, J. W. Chipman, prest.; E. H. Hall, seey, and reas. Cap. 8tk. \$10,000. Odlite limestone. Shaft, open plt. 30,000 tons; steam; mill.  ord Stone Quarries Co. C. D. Hank, prest., W.C. Winstandley, seey, and treas, S. B. Vorts, mgr. aps. 6tk. \$10,000. Odlite limestone. Open plt. 10,000 tons; steam; mill. J. E. Evans, Sup.  spechalt Bedford Stone Co., Chicago, Ill., 110 The Rookery. N. A. Rodenschalt, prest.; E. H. Brown, ons; steam; mill. A. M. Brown, supt.  ago & Bedford Stone Co., James Kinmaird, prest., J. F. Thornton, seey, T. V. Thornton, ngr. Cap.  tk. Supon. Bille Hole, oddlite limestone. Open plt, 15,000 tons; steam, W. O. Troy, sup.
LOCATION OF MINE OR QUARTER	ME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE. NAMES OF OFFICERS, CAPITAL STOCK.  NAME OF WISE ON QUARMY, KIND OF STONE, KIND OF MINE OR QUARMY, ANNUAL OUTFUT IN TORS OF  2000 FOUNDS. KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERILESS AND  CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.  Re Bedford Stone Co., Chicago, Ill., 576 S. Morgan St., John Rawle, prest, and mgr.; T. C. Deiner, secy, and treas.  Cap. St., St., 200, 2000. Sandstone. Steam, mill. J. J. Jones, supt.  ford Steam Stone Works. D. V. Johnson, prest, mgr., and supt.; E. B. Thornton, secy, and treas.  Tap. St., St., 200, 2000. Bedford, limestone. Open plt. 10,000 fons, steam; mill.  Ford Stone Co., Indianapolis, Ind., 42 Thorpe Block. J. W. Chipman, prest.; E. H. Hall, secy, and  gray, St., St., 200, 2000. Odilite limestone. Shaft, open plt. 40,000 fons; steam; mill. J. E. FEARS, supt.  ord Stone Quarries Co. C. D. Hank, prest., W. C. Winstandley, secy, and treas.; S. B. Vorrs, mgr.  "ap. St., St., 200, 2000. Odilite limestone. Open plt. 10,000 fons; steam; mill. J. E. FEARS, supt.  unschaft Bedford Stone Co., Chicago, Ill., 11 at The Rookery. N. A. Bodenschaftz, prest.; E. H. Brown,  ewy.; J. G. Bodenschaftz, treas. Cap. six, 830,000. Bodenschaftz, odilite limestone. Open plt., 4,500  onis; steam; mill. A. M. Brown, supt.  day & Redford Stone Co., James Kinnaird, prest., J. F. Thornton, secy., T. V. Thornton, nigr. Cap.  dk. Sugoo. Blue Hole, odilite limestone. Open plt., 15,000 tons; steam. W. O. Troy, supt.  dk. Sugoo. Blue Hole, odilite limestone. Open plt., 15,000 tons; steam.
Bedford   Lawrence   Acm	NAME OF WISE OR QUARMY, KIND OF STONE, KIND OF MINE OR QUARMY, ANYLA, OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USER, KIND OF MINE MILES, LIBERILIS AND CAPACHY, ETC., AND NAME OF MINE SUPERINTENDENT.  Be Redford Stone Co., Chicago, Ill., 576 S. Morgan St., John Rawle, prest, and mgr.; T. C. Deiner, seey and treas. Cap. stk., \$100,000, Sandstone. Steam, mill. J. J. Jones, supt.  Ford Steme Notice Works. D. V. Johnson, prest., mgr. and supt.; E. B. Thornton, seey, and treas. (ap. stk., \$10,000, Bedford, Limestone. Open ptl., 10,000 tons, steam; mill.  Ford Stone Co., Indianapolis, Ind., 42 Thorpe Block, J. W. Chipman, prest.; E. H. Hall, seey, and reas. Cap. stk. \$150,000. Boditic limestone. Shaft, open ptl, 40,000 tons; steam; mill. II. H. Walls, apt. (st.) Stone Quarries Co., C. D. Hauk, prest., W. C. Winstandley, seey, and treas, S. B. Vorts, mgr., ap. stk. \$100,000. Oditic limestone. Open ptl, 100,000 tons; steam; mill. J. E. Evans, supt. uschatz Bedford Stone Co., Chicago, Ill., 11 to The Rookery. N. A. Bodenschatz, prest.; E. H. Brown, evy., J. G. Bodenschatz, treas. Cap. stk. \$30,000. Bodenschatz, oditic limestone. Open ptl, 4,500 ons; steam; mill. J. R. Rookenschatz, and the Rookery of the Bookery. T. V. Thornton, mgr. Cap. &t. Shooten Steam. W. O. Troy, supt.
Bedford   Lawrence   Acm   Ry. 256, 404, 588	and treas. Cap. stk, \$100,000. Sandstone. Steam, mill. J. J. Jones, supt. ford Steam stone Works. D. V. Johnson, prest., mgr. and supt.; E. B. Thornton, seey, and treas. Cap. stk. \$10,000. Bedford, limestone. Open pit, 10,000 foms, steam; mill. B. Thornton, seey, and treas. Cap. stk. \$150,000. Offlite limestone. Shaft, open pit, 40,000 foms; steam; mill. H. H. Walls, apt. ford Stone Quarries Co. C. D. Hank, prest., W. C. Winstandley, seey, and treas.; S. B. Vorrs, mgr. Cap. stk. \$1,000,000. Offlite limestone. Open pit, 10,000 fons; steam; mill. J. E. Frans, supt. suschaftz Bedford Stone Co., Chicago, Ill., 110 The Rookery. N. A. Bodenschaftz, prest.; E. H. Brown, eccy.; J. G. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, freas. Cap. stk. \$3,000. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, Open pit, 4,500 ons; steam; mill. A. M. Brown, supt.
Ry, 256, 404, 738. a  " Belf ( Belf ( ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	and treas. Cap. stk, \$100,000. Sandstone. Steam, mill. J. J. Jones, supt. ford Steam stone Works. D. V. Johnson, prest., mgr. and supt.; E. B. Thornton, seey, and treas. Cap. stk. \$10,000. Bedford, limestone. Open pit, 10,000 foms, steam; mill. B. Thornton, seey, and treas. Cap. stk. \$150,000. Offlite limestone. Shaft, open pit, 40,000 foms; steam; mill. H. H. Walls, apt. ford Stone Quarries Co. C. D. Hank, prest., W. C. Winstandley, seey, and treas.; S. B. Vorrs, mgr. Cap. stk. \$1,000,000. Offlite limestone. Open pit, 10,000 fons; steam; mill. J. E. Frans, supt. suschaftz Bedford Stone Co., Chicago, Ill., 110 The Rookery. N. A. Bodenschaftz, prest.; E. H. Brown, eccy.; J. G. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, freas. Cap. stk. \$3,000. Bodenschaftz, treas. Cap. stk. \$3,000. Bodenschaftz, Open pit, 4,500 ons; steam; mill. A. M. Brown, supt.
Belf	(3p. 8K. 810,000). Beatford, linestone. Open ptf. 10,000 fons, steam; mill, of off Stone Co., Indianapolis, Ind., 32 Thorpe Block, J. W. Chipman, prest.; E. H. Hall, seey, and reas, Cap. 8tk, 8150,000. Oddite limestone. Shaft, open ptf. 40,000 fons; steam; mill, H. H. Walls, apt., ord Stone Quarries Co., C. D. Hank, prest., W. C. Winstandley, seey, and treas,; S. B. Vorts, mgr. 3p. stk. 81,000,000. Oddite limestone. Open ptf. 10,000 fons; steam; mill. J. E. Evans, supt. usselntz Beafford Stone Co., Chicago, Ill., 4140 The Rookery. N. A. Bodenschatz, prest.; E. H. Brown, usselntz Beafford Stone Co., Chicago, Ill., 4140 The Rookery. N. A. Bodenschatz, prest.; E. H. Brown, usselntz Beafford Stone Co., Chicago, Ill., 4140 The Rookery. N. A. Bodenschatz, prest.; E. H. Brown, sight, J. G. Bodenschatz, treas, Cap. 8tk, 850,000. Bodenschatz, oddite limestone. Open ptf., 4,500 ons; steam; mill. A. M. Brown, sight, ago & Bedford Stone Co., James Kinnaird, prest., J. F. Thornton, seey, T. V. Thornton, ngr. Cap. 4tk, 850,000. Blue Hole, oddite limestone. Open ptf., 15,000 tons; steam, W. O. Troy, supt.
" " Bedf	reas. Cap. Sik, \$13,000. Odilite limestone. Shaff, open pit, 40,000 tons; steam; mil. H. H. Walls, npt. ord Stone Quarries Co. C. D. Hank, prest., W. C. Winstandley, seey, and treas,; S. B. Vorrs, ngr. 'ap. Sik, \$1,000,000. Odilite limestone. Open pit, 10,0000 tons; steam; mill. J. E. Evans, supt. uschaft Bedford Stone Co., Chicago, Ill., 110 The Rookery. N. A. Rodenschatz, prest.; E. H. Brown, eey; J. G. Bodenschatz, treas. Cap. sik, \$30,000. Bodenschatz, odilite limestone. Open pit, 4,500 ons; steam; mill. A. M. Brown, supt. ago A. Bedford Stone Co., James Kinnaird, prest., J. F. Thornton, seey, T. V. Thornton, ngr. Cap. ik, \$30,000. Blue Hole, oddille limestone. Open pit, 15,000 tons; steam, W. O. Troy, supt.
" " Bode	'ap. st., \$1,00,000. Oolitic limestone. Open pit, 100,000 fons; steam; mill. J. E. Evans, supt. uschatz Bedford Stone Co., Chicago, Ill., 1110 The Rookery. N. A. Bodenschatz, prest.; E. H. Brown, eeg., J. G. Bodenschatz, treas. Cap. stk. \$0,000. Bodenschatz, oolltic ilmestone. Open pit, 4,500 onis; steam; mill. A. M. Brown, supt. ago & Bedford Stone Co., James Kinnaird, prest., J. F. Thornton, seey., T. V. Thornton, ngr. Cap. sk. \$0,000. Blue Hole, oolitic limestone. Open pit, 15,000 tons; steam. W. O. Troy, supt.
" Bode	enschaft Bedford Stone Co., Chicago, Ill., 110 The Rookery. N. A. Rodenschaft, prest.; E. H. Brown, cecy.; J. G. Bodenschaft, treas. Cap. stk. \$30,000. Bodenschaft, collide llinestone. Open pit, 4,500 onis; steam; mill. A. M. Brown, supt. ago & Bedford Stone Co., James Kinmaird, prest., J. F. Thornton, seey., T. V. Thornton, ngr. Cap. stk. \$10,000. Blue Hole, collide linestone. Open pit, 15,000 tons; steam. W. O. Troy, supt.
" Chie;	
	nibia Lithographie Stone & Cement Co., Chicago, III., 69 Dearborn st., Suite 30. – Joseph II. Hooper, orest.; E. I. Sutfin, seey, and treas, Cap. stk. \$200,000. Columbia, lithographie stone, Open; steam.
	ner & Norton Stone Co. Cap. 810,000. Oölltic llmestone. Steam.
" Dark	CHollow Gölftie Stone Co. M. A. Blatz, prest.; E. B. Thornton, seey., treas., mgr. and supt. Cap. stk. 50,000. Limestone. Open pit, 12,000 tons; steam.
	Mollow Quarry Co., Louisville, Ky., Fifth and Market sts. Charles R, Peaslee, prest., Wm. Reinecke, eevy.; Wm. R, Johnson, treas. Cap. stk, 8200,000. Dark Hollow, oöiltie timestone. Open pit, 60,000 ons; steam, nill. Clindon S, Norton, supt.
	owell Stone Co. John R. Doyle, mgr. Limestone. Steam; mill.
- Indi:	ana Stone Co., J. W. Newland, prest.; Gus. C. Davis, seey, and mgr.; M. N. Messick, treas. Cap, stk. 445,000. Indiana, hmestone. Open pit, 100,000 tons, steam, mill.
t e	less Stone Co. W. C. Winstandley, prest.; J. O. Finks, seey.; Bedford Bank, treas.; Lycurgus Dalon, mgr. Cap, stk. \$100,000. Peerless, oblitic limestone. Open pit, 18,000 tons; steam; mill. Robert detkinley, supt.
- Perr	y, Matthews & Buskirk, William N. Matthews, mgr. Cap. \$75,000. Odilite finnestone, Open pit, 6,000 tons; steam, John Torphy, supl.
	m Bedford Stone Co., Louisville, Ky., 421 Main st. R. A. Robinson, prest.; John L. Wheat, seey.; John A. Carter, treas.; Dexter Belkingp, mgr., Cap. stk. \$200,000. Bedford, obilite limestone. Open dit, 2,000 fours, steam; mill. Wm. Roberts, supt.
	t Bedford Stone Co. Afbert Luedtke, prest.; Frank Knohl, seey, and treas. Cap. 8tk, \$25,000. West Bedford, oblitic stone. Open pit; steam. Peter Fillion, supt.
Bloomington. Monroe Bloom Ry, 170, 404, 563.	mington Oolitle Limestone Co. William Smart, prest, James B. Mulky, sery.; James B. Clark, reas: John W. Shoemaker, mgr. Cap. stk. \$20,000. Bloomington, limestone. Open plt. 4,000 tons; team; mill.
" " Hunt	ter Stone Co., First National Bank Bidg. W. P. Rogers, prest, and mgr.; J. H. Louden, seey.; W. X. showers, treas. Cap. stk. \$30,000. Hunter, oblite limestone. Open pit, 15,000 tons; steam; mill. I. Henley, supt.
·· · · · · · · Moni	roe County Oolitic Stone Co., R. F. Adams-sr., prest.; W. H. Adams, seey, and mgr.; R. F. Adams r., treas. Cap. stk. \$100,000. Limestone. Open pd., 10,000 tons; steam.
" Nort	h Bedford Stone Co. W. H. McKnight, prest.; B. A. McGee, seey., mgr. and supt., M. J. Carnahan, reas. Cap. stk. \$150,000. North Bedford, oblitic linestone. Mill.
Charlestown. Clark India Ry, 538. Clark India	ana Cement Co., Jettersonville, Ind., 149 Spring St., Ward H. Watson, prest., Thomas B. Rader, eey., John D. Sharp, Ireas.; Isaac N. Haymaker, mgr., Cap. 8tk, 850,000. Stone. Open pit; steam, ement mill, 100,000 brs., Lemnel Long, supt.
	l Griffith. Cap. \$3,000. Clay City Pottery, potters' clay. Open pit. steam.

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

Clear Creek..... Ry, 404.

Eugene ..... Vermillion Ry. 146, 768. French Lick.... Orange

Ry. 404.

Ry. Orleans 404.

Ellettsville.

## STONE, MARBLE, GRANITE AND ONYX -(CONTINUED)

Georgia, .....Lawrence J. A. Chaillaux & Bros. Cap. \$5,000. Hindostan oil stone. Open pit, 50 tons; mill. Ry. Mitchell 404, 538.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STORE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILINS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Monroe Bloomington-Bedford Stone Co., Chicago, Hi., Room 67 Major Block, 14° La Salle st. John A. Henry prest; Wm. C. Shaw, seey, and treas. Cap. sik, Simanoo, Bedford, stone. 1,800 tons; steam; mill. Robert Emery, supt.

Monroe Matthews Bros. Fred Matthews, mgr. Cap. stk. \$50,000. Matthews, limestone. Open pit, 30,000 tons; steam, horse, hand; mill.

Perry Bros. Cap. \$30,000. Perry, offlitic limestone. Open pit, 20,000 tons; steam and horse; 2 mills.

Vermillion Vermillion Sandstone Co., Danville, Ill. E. C. Hodges, prest.; A. W. Heinly, seey.; S. J. McKee, treas. 3.

Cap. 8t., \$100,000. Sandstone. Mill.

H. E. Wells & Co. + Cap. stk. \$20,000. Moore, Hindostan stone. Open pit, 40 tons; horse, hand; mill.

The Pike Mfg. Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, seey, and treas. Cap. stk. \$70,000. Pike, fine and coarse sandstone.

The Pike Mfg. Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, secy. and treas. Cap. stk, \$70,000. Pike, fine and coarse sandstone,

Ry. Sardinia Crossing 170, 256,	Open pit; hand; steam.
Holton Ripley Ry. 538,	Eli Cox. Indiana, lime and flagging stone. Open pit, 6,000 tons; hand.
Huron, Lawrence Ry, 538,	John J. Kirk. Cap. \$1,500. Steve Jones, Hindostan oil stone or water stone. Open pit 10 tons: steam; mill.
	The Pike Mfg. Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, seey, and treas. Cap. stk. \$70,000. Pike, fine and coarse sandstone.
Laurel Franktin Ry. 170,	M. E. Secrest. Cap. \$20,000. Laurel, limestone. Open pit, 100,000 tons; horse.
Ry, Carbon 170.	Parke County Brown Stone Co., Chicago, III., 21 Rialto Bldg. Parke County, brown and red sandstone. Open pit, 12,000 tons; steam, horse, hand. O. R. Reynolds, supt.
Markle Huntington Rv. 503.	F. A. Brickley, Cap. \$2,000. Brickley, limestone. Open pit, 4,000 tons. F. A. Brickley, supt.
Ry. 404, 538.	Big Four Lime Co. E. P. Eversole, prest, and treas.; J. D. Moore, secy, and mgr. Cap.\$4,000, Limestone, 3,000 tons; hand; kim, 10,000 tons.
North BedfordMonroe (P. O. Bloomington) Ry, 563.	Big Creek Stone Co., Bloomington, Ind. Geo. W. Ballenbacher, prest, and mgr.; R. C. Greeves, seey, and trens. Cap. Stk. S000,000. Big Creek, offittic limestone. Open pit, 6,000 tons; steam; stonemill. W. H. Cox, supt.
Osgood Ripley Ry, 538,	A. B. Ashman Co., Cincinnati, Ohio, S. W. cor, Ninth and John sts. A. B. Ashman, prest,; George Ashman, seey.; Alfred L. Ashman, treas, and supt. Cap. stk. \$100,000. Osgood, limestone. Open pit, 10,000 tons; steam.
Paoli, Orange Ry, 170, 404.	T. N. Braxtar & Sons, oil stones, Open pit.
24	John Jones, Braxton, sandstone. Open pit, 500 tons; hand.
	Wm. F. Osborn, Cap. \$2,500. Hindostan and sand stone. Open pit, 145 tons; hand, horse.
**	The Pike Mfg. Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, secy, and treas. Cap. stk. \$70,000. Pike, fine and coarse sandstone.
River Side, Fountain Ry, Independence 784.	Guyer, Burchby & Co. Cap. \$18,000. Riverside, sandstone. Open pit, 10,000 tons; horse. R. H. Guyer, supt.
Romona Owen Ry, 563.	Oölitic Quarry Co., Spencer, Ind. Charles Lilly, prest.; C. H. Miller, seey, and, treas. Oolitic limestone.
" ········· · "	Oölitic Stone & Lime Co. Ira H. Pauley, prest, and mgr.; D. W. Jones, seey, and treas. Cap. stk. \$15,000, Oolitic limestone. 40,000 tons; steam; mill; limekiln. 3,000 tons. G. A. Beanart, supt.
"···	Pauley & Whitley, Cap. \$10,000. Owen, oölitic limestone. Open pit, 10,000 tons; steam; stonemill; limekiln, 1,500 tons. 1, H. Pauley, supt.
	Ramona Galitie Stone Co., Indianapolis, Ind., 15 Ingalis Block. H. Bates, prest.; H. Bates jr., seey, and treas.; Walter Kessler, mgr. Cap. stk. \$30,000. Mill Creek, odlitic limestone. Open pit. 30,000 tons; steam; mill.
Salem Washington Ry, 404.	Salem Bedford Stone Co., Louisville, Ky., 421 Main st. R. A. Robinson, prest.; John L. Wheat, seey.; John A. Carter, treas.; Dexter Belknap, mgr. Cap. 8tk, \$200,000 Salem, finestone. Open pit, 2,000 tons; steam; mill, 5 kilns. Wm. Roberts, supt.
Smithville Monroe Ry, Clear Creek 404.	Oolitic Stone Co., Bedford, Ind. Cap. 8tk. \$100,000. Linuestone. Open pit, 25,000 tons; steam. John Chambers, supt.
	Thomlinson Stone Co., Chicago, Ill., Room 44, 189 La Sallest. John Thomlinson sr., prest.: John Thomlinson jr., seev., treas. and mgr. Cap. stk. \$100,000. Thomlinson, oblitic limestone. 25,000 tons; stean; mill. Harry Tell, supt.
Spencer Owen Ry, 536.	Spencer Lime & Rubble Quarry Co. O. T. Dickerson, prest; T. H. Boswell, seey, and treas.; Tom Robinson, mgr. Cap. stk. \$6,000. Spencer, rubble, riprap. 7,500 tons; steam; mill.
Stinesville Monroe Ry.North Bedford 564,	Big Creek Stone Co., Bloomington, Ind. G. W. Ballenbacher, prest, and mgr.; R. C. Greeves, serv. and treas. Cap. 8tk, 850,000. Big Creek, oddfile linestone. Open pit, 10,000 tons; steam; mill. W. H. Cox, 8tp.

## STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 FOUNDE, KIND OF FOWER USED, STONE OR MARRIE MILLS, LIMERILMS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Stinesville Monroe (Continued.)	North Bedford Stone Co., Bloomington, Ind., W. H. McKnight, prest.; B. A. McGee, seey, and mgr.; M. J. Carnahan, treas. Cap. stk. \$150,000. North Bedford, offlite limestone. Steam; mll., Isaac Presnell, sup.
**	Stinesville & Bloomington Stone Co. J. S. Williams, prest., treas, and mgr. Louis N. Williams, secy, Cap. stk. \$100,000. Oölltic limestone. Open pit, 12,500 tons; steam; mlll.
Turner Clay Ry, Newburg 563.	H. M. Pierce, Cap. \$2,000. Pierce, sandstone. Open pit, 2,500 tons; horse, hand,
West Baden Orange Ry, 404.	Z. A. Lynch, Cap. \$500. Mt. Orie, Hindostan oil stone. Open pit, 12 tons; horse; mill,
Westport Decatur Ry, 256.	Bolcourt & Dowden, Z. Bolcourt, prest.; Etta Bolcourt, secy.; M. Dowden, treas. Bolcourt, limestone. Open pit; hand.
Williamsport,,Warren Ry, 784,	Williamsport Sandstone Co. John Gregory, prest.; B. R. Gregory, seey, and treas. Cap. stk. \$50,000. Williamsport, sandstone. Open plt. 40,000 tons; steam. Benjamin R. Gregory, mgr. and supt.

SEE ALSO SUPPLEMENTARY LIST

# INDIAN TERRITŌRY

## COAL BITUMINOUS

Location of Mine, Railways, Water Routes and Shippino Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,00 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHEIRS, COKE OVENS, AND NAME OF MINE SUFFRINTENDENT.
Ardmore .Chickasaw Ry, 26.	White Ash Coal & Mining Co., Dallas, Tex. W. A. Bright, prest., L. O. Robertson, secvy, James M. Steere, treas., W. A. Dennis, mgr. Cap. 8tk, \$100,000. White Ash. Slope, steam. Frank Cooley, supt. developings.
Coalgate .Choctaw Ry, 214.	South-Western Coal & Improvement Co. Win, Bond, prest., Charles G. Hedge, seey, and treas.; Thomas Fleming, mgr. Cap. 8tk, \$00,000. Shaft, slope, pit, 220,005 tons, steam. Ed. Henderson, supt.
Hartshorne Choctaw Ry, 459, 720.	Choctaw Coal & Railway Co., Philadelphla, Pa., 238 S. Third street. Charles Hartshorne, prest.; Frank T. Pattison, seey.; W. C. Alderson, treas. Cap. 8t. 85250,000. Hartshorne, Alderson, Shaft, slope, open pit, 300,000 tons, steam. Elwin Ladlow, supl.
Lehigh Choctaw Ry, 459.	Atoka Coal & Mining Co., St. Louis, Mo., Sixth and Locust sts. Edwin Gould, prest.; D. S. H. Smith, seey, and treas.; R. M. McDowell, v.prest, and gen, nogr. Cap. stk, \$500,000. Atoka, Shafts, 300,000 tons; steam. Win, Cameron, supt.
McAlester . Choctaw Ry, 459.	Osage Coal & Mining Co., 8t. Louis, Mo., Sixth and Locust 4ts. Edwin Gould, prest; D. S. H. Smith, seey, and treas; R. M. McDowell, vprest, and gen, mgr. Cap. 8tk, \$50,000, Osage No., 9, 10, 12. Slope, shaft, 40,000 fons; steam; 80 coke ovens, capacity 12,000 fons. Afm. Cameron, supt.
Scullyville Choctaw (P. O. Jenson, Ark.) Ry, 720.	National Corl & Minling Co., Dallas, Tex., 963 North Texas National Bank Bidg. 41, L. S. Kniffire, prest,: Charles I, Miles, seey, and treas. Cap. 8tk, \$25,000. Wallsburg, Choctaw, Tunnel, open plf. steam (developing).

## GOLD AND SILVER

RAILWAYS, WATER ROUTES AND SHIPPING POINT.  TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officerr, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Ardmore . Chickasaw Ry, Wynnewood 26,	Silver Queen Mining Co. R. Stewart Dennee, prest.; C. M. Campbell, secy.; S. Zuckermann, treas, and mgr. Cap. stk. \$20,000. Silver Queen, silver, gold, copper. Shaft; steam, hand. Henry J. Brennan, sout.

SEE ALSO SUPPLEMENTARY LIST

LOCATION OF MINE.

LOCATION OF MINE,

# AWO1

## COAL BITUMINOUS

PAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, SS OF 2,000 POUNDS, KIND OF POWER USED, O NAME OF MINE SUPERINTENDENT.
erprise. Shaft; steam, T. J. Lewis, supt.
il R. Anderson, seey.; R. Dewhurst, treas.; J. 1 Shaft, 75,000 tons; steam,
iy, mgr. Cap. stk. \$10,000. Angus. Shaft, 200,00
W. Walton, seey. Cap. stk, \$100,000. Shaft, 35.0
5,000. Lone Hollow. Slope, 8,000 tons; horse,
ap. \$57,000. Smoky Hollow. Slope, 105,000 ton
rd. Drift, 107 tons; horse.
Phillips jr., secy. Slope, 30,000 tons; steam,
B. Wightman, secy, and treas. Cap. stk. \$30,0
obs, prest., W. A. Seevers, treas. Cap. stk. \$100.0
; Henry Phillips, secy.; E. L. Kilby, treas. Cricity. Wm. Foulkes, supt.
; John Keating, treas., mgr. and supt. Cap. s am.
T. N. Canfield, secy., treas, and mgr. Cap. s C. Logan, supt.
Shaft, 1,200 tons: horse,
Wm, Craw, supt.
70,000 tons; horse.
; Henry Phillips, secy.; E. L. Kilby, treas. Calcity. Wm. Foulkes, supt.
225 Merriam Block. Joseph Turner, prest., m 810,000. Phonix. Slope, 10,000 tons; horse,
2,000 tons; horse.
e.
s; horse,
rse. T. Gibbie, mgr. and supt.
ons; horse, J. W. Gibson, supt.
; hand, Wm. Ruth, supt.
Shafts Nos. 4 and 5. Shafts, 300,000 tons; stea
se,
rance Bldg. L. L. Coburn, prest.: Alfred Cowl 5,000 tons; steam. W. P. Jones, supt.
;; James Wilson, treas, and mgr. Cap. stk. \$8,0
e, seey, and treas, Cap. stk. \$60,000. Diamoi irgavelt, supt.
st. W. R. Daum, prest.: George P. Daum, sec aft, 25,000 tons. John Morris, supt.
, secy.; A. P. Anderson, treas.; Andrew Burkhurse,
ord, secy, and mgr. Cap, stk, \$10,000. Shaft, 6,
nm. John Raney, supt.
ans Johnson, secy.; C. A. Stanton, treas.; T. ıylan. Shaft, steam.
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## COAL-BITUMINOUS (CONTINUED)

COAL-BITUMINOUS—(CONTINUED)	
LOCATION OF MINE,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,
TOWN AND COUNTY.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Chi holm Monroe Ry, Maxon 135.	Whitebreast Fuel Co., Chicago, Ill., 349 Rookery Bldg., J. C. Osgood, prest.; C. E. Phelps, seey., G. W. Traer, treas.; T. J. Phillips, mgr. Cap. stk. \$1,397,000, No. 10. Shaft, 38,268 tons; steam. R. D. Rosser, supt.
Cincinnati Appanoose Ry, 133.	Appanoose Coal Co., J. N. Marsh, prest, treas, and mgr., E. S. Marsh, seey. Cap. 8tk, \$20,000. Shaft, 36,000 tons; steam. D. H. Morrison, supt.
44	Cincinnati Coal Co. J. C. McDonald, prest and treas.; G. W. Colton, seey, and mgr. Cap. 8tk, \$10,07). Cincinnati. Shaft, 5,000 tons, horse.
Coaffield Monroe Ry, 327,	A. B. Little, Oskaloosa, Iowa, Black Diamond, Slope, 3,000 tons, steam,
Ry, Coalville Mines 503,	4. Rhodes & Co. Rhodes. Open pit, 400 tons, hand.
Colfax Jasper Ry, 142, 144.	Jasper County Coal Co. F. H. Griggs, prest., Geo. A. Goodrich, seey., treas, and mgr. Cap. 8tk. \$60,040, Jasper County. Shatt, 40,000 tons. steam. D. S. Couch, supt.
	Thomas D. Hulme. Cap. 85,000. Commerce. Shaft, 1,000 fons. horse. Samuel Dale, supt.
	Frye Bros. Cap. \$1,500. Frye. Shaft, 1,600 tons. steam. H. E. Frye, mgr.
Cory Keokuk	William Roussean (local), Cap. \$200. Roussean, Slope, Stotus; hand, North Star Coal Co. John Rettig, seey and treas;; John Farly, mgr. Cap. 8tk, \$20,000. Shaft, 45,000 tons; Steam.
Darby "Appanoose (P. O. Mystic) Ry, 141.	
Dawson Dallas Ry, 141.	Dawson Coal Co. Cap. 8tk. \$50,000. Shaft, steam.
Dean Appanoose Ry, 364,	Patrick Gorman, Gorman, Slope, 80 tons, band,
Des MoinesPolk Ry. 135, 450, 442, 444, 217, 218, 219, 784.	Bloomfield Coal & Mining Co., 406 E. Walnut st. John Wilson, prest., A. V. Velson, secy., Charles 8 Worth, treas., mgr. and supt. Cap. stk. 805,000. Bloomfield. Shaft, 40,000 tens., steam.
	Campfield Coal & Mining Co., 411 E. Sixth st. J. G. Haskins, prest. Henry F. Garver, seey., treas, and mgr. Cap. stk. 50,000. Campfield. Shaft, steam [developing]. David Ash, supt.
	Christy Coal Co., Room 9 Clupp Block. J. M. Christy, prest, and nigt.; C. F. Hemenway, seey, and treas. Cap. 8tk, 850,000. Christy. Shalt, 50,000 tons. Steam. James E. Stout, supt.
	Coon Valley Coal Co., Seventh and Mulberry Sts. J. D. Stockton, prest.; J. Whitney Ross, sery.; Geo. W. Bleyney, treas; Thomas Beck, ngr. Cap. stk, 85,000. Coon Valley. Shaft, 25,000 tons; steam. Thomas Bates, supt.
	Eureka Fuel Co., 611 W. Locust st. W. L. Brown, prest., C. J. Carlson, seey, and supt., J. A. Brown, treas, and mgr. Cap. \$10,000. Eureka. Shaft, 11,000 fons; steam.
	Maple Grove Coal & Mining Co., 505 E. Sixth St. W. F. Garrison, prest, and secy., A. W. Carlson, treas, Cap. stk, \$50,000. Maple Grove. Shaft, 75,000 tons, steam. C. A. Swanson, supt.
	Proctor Coal Co., cor. Third and Locust sts. D. Proctor, prest.: F. Proctor, secy. Cap. \$10,000. Proctor. Shaft, 30,000 tons: steam. W. Edge, supt.
	Vanginkel Coal Co., First and Court avs. G. Vanginkel, prest, and treas.; G. C. Vanginkel, seey.; W. E. Marsh, mgr. Vanginkel. Shaft, 20,000 tons, steam. Claus Vanginkel, supt.
Douds Station Van Buren Ry, 142.	Carson & Walker. Slope, 8,000 tons; horse. Matthew Walker, supt.
**	G. W. Findley. Cap. \$5,000. Business Corner—Slope, 12,000 tons. horse.  Black Diamond Coal & Mining Co., Des Moines, Iowa, 212 W. Seventh st. Isaac Brandt, prest.: C. D. Boardhian, seey. A. C. Macy, treas, and mgr. Cap. stk. \$100,000. Black Diamond. Slope, 116,000 tons; steam. Wm. Robinson, supt.
Eldon ,Wapello Ry, t52.	A. T. Dotson (local). Dotson. Tunnel, 800 tons; hand.
**	Eli Dye, Cap. 83,000, Salf Creek, Open, 1,600 tons; hand,
Evans Mahaska Ry. 142.	American Coal Co., Oskaloosa, Iowa. H. W. McNeill, prest., Wm. T. Phillips, secy., James F. McNeill, treas.; W. A. McNeill, mgr. Cap. stk. \$200,000. No. 2. Slope, 175,000 tons, steam. R. E. Wilson, supt.
Ry, 135, 142,	G. W. Bates (local). Cap. \$500. Cedar Hill. Shaft, 720 tons, horse.
Fanslers Guthrie	John Williamson (local). Slope, 120 tons.  P. Renslow (local). Cap. \$1,000. Renslow. Shaft, 800 tons; horse.
Ry, Guthrie Centre 142. Farmington Van Buren	Farmington Coal & Mining Co. James Carr, prest, mgr, and supt.; Frank D, Carr, seey., C. W. Sherrick.
Ry, 133, 142,	treas, Cap. stk. \$6,000. Panic. Shaft, slope, 10,000 tons; horse.  S. R. Rollings (lessee). Oak Hill. Slope, 12,000 tons; horse.
Ry, 135,	8. R. Romings (1888ec). Gak Inn. Supe. (1996) 6018; fidy. J. Osgood, prest., C. E. Phelps, secy.; G. W. Traer, treas.; T. J. Phillips, mgr. Gap. 8tk, 81,300,000. No. 19. Shatt. 46,721 four: steam. J. Holling, J. Phillips, J. Phillips, J. Phillips, J. C. Phelps, Secy.; G. W. Traer, treas.; T. J. Phillips, mgr. Gap. 8tk, 81,300,000. No. 19. Shatt. 46,721 four: steam. J. Holling, J. Phillips,
Lunt Durley Wale ton	land, supt.

Fort Dodge — Webster Albert Stine, Cap, \$125. Slope, 400 tons, horse, Ry, 142, 319, 423, 456.

## COAL-BITUMINOUS (CONTINUED)

RAILWAYS, WATER ROUTES AND SHIPPING POINT.  TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
Foster, Monroe Ry, 141.	Deep Vein Coal Co., Cedar Rapids, Iowa. E. I. Foster, prest, and treas.; C. H. Fugle, seey, and supt. Cap. stk. \$200,000. Shaft, slope, 100,000 tons; steam.
	Monroe Coal & Prospecting Co. A. McCoy, prest.; B. F. Fritchle, seey, and mgr.; F. P. Hank, treas. Cap. stk. \$2,500. Shaft; horse.
Fredric, Monroe Ry, 135.	Charles Akers, Cap. \$2,000. Shaft, 4,000 tons; horse,
GivinMahaska	C. Alexander. Cap. \$1,000. Glvin. Slope, 10,000 tons; horse.
	Chilton Bros. Cap. \$6,600. Chilton. Slope, 500 tons; hand. Arthur Chilton, supt.
Guthrie Centre : Guthrie Ry, 142,	Ginthrie Centre Coal Co. H. K. Dewey, prest.; J. D. Brown, secy.; Ed. Dash, treas. Cap. stk. \$5,000 (developing).
Hamilton Marion Ry, 135, 147.	Boudinot Bros. Cap. \$5,000. Hamilton. Slope, 32,000 tons; steam, G. A. Bondinot, supt.
"	Geo, C. Davis, Cap. \$5,000. Davis. Shaft, 8,000 tons; horse.
	Hickory Coal Co., C. C. Cox., prest.; C. N. Bloomfield, seey, and treas. Cap. \$7,000. Hickory. Shaft, 30,000 tons; steam. Wm. Jamison, mgr. and supt.
	David Cox. Cap. \$300. Hillsboro, Tunnel, 160 tons; hand.
Hiteman Monroe Ry, 135,	Wapello Coal Co. J. C. Peasley, prest.; H. E. Jarvis, secy.; S. A. Corey, treas.; H. L. Waterman, mgr. Cap. stk. \$730,000. Shaft, 250,000 tons; steam. J. W. Hayne, supt.
Jamaica Gnthrie Ry. 141.	Simon & Sons, G. W. Simon, secy.; J. H. Wallace, treas.; W. D. Simon, mgr. and supt. Cap. stk. \$10,000. Greenbrier. Shaft, 6,000 tons; horse, steam.
JeromeAppanoose Ry, 141.	Gladstone Coal Co., Joseph Goss, prest.; Peter Marsden, secy, and treas.; Robert Marsden, mgr. and supt. Cap. 8tk. \$5,000. Gladstone. Shaft, 12,000 tons; steam.
Kalo	E. Johnson (local). 175 tons,
Keb Wapello Ry, 135.	Porter & Bird. Tannel, 10,000 tons; hand. James Porter, supt.  Whitebreast Fuel Co., Chicago, Ill., 340 Rookery, Bldg., J. C. Osgood, prest; C. E. Phelps, seey.; G. W. Traer, treas.; T. J. Phillips, mgr., Cap. stk. \$1,300,000. No. 22. Shaft, 129,107 tons; steam. J. Luke jr., supt.
KirkvilleWapello Rv. 142.	F. A. Waddell (local). Waddell, Shaft, 20 tons; horse,
	S. M. Buckman, Buckman, Slope, 780 tons; horse,
*	S. L. Collins Coal and MiningCo. S. L. Collins, prest.: Lafe S. Collins, secy., treas, and mgr. Cap. stk. \$3,000. No. 3. Shaft.
	Wm. Lewis, Cap. \$3,000. Lewis, Shaft, 2,500 tons; horse.
Laddsdale Davis	W. O. Robinson (local). Slope, 2,400 tons; horse.  Eldon Coal & Mining Co., Ottumwa, Iowa, 102 Market st. W. R. Daum, prest.; Geo. P. Daum, seey., treas.
Ry, 142.  LehighWebster	and mgr. Cap. stk. \$50,000. No. 1. Shaft, 50,000 tons; steam. Samuel Smith, supt.  Corey Coal Co. Frank Corey, mgr. Cap. \$6,000. Corey, No. 1. Slope, 2,000 tons; steam. Rees Stephens.
Ry, 423, 794.	s. W. Corey. Cap. \$2,000. Corey. Slope, 5,000 tons; horse. John Davenport, supt.
	Crooked Creek R. R. & Coal Co. W. C. Willson, prest.; J. M. Funk, secy, and treas.; Samuel McClure, gen, mgr. Cap. stk. \$225,000. Crooked Creek. Shaft, slope, 17,165 tons; steam, horse. John Hamilton, subt.
44	W. H. & S. McClure. Cap.\$10,000. Black Diamond. Slope, 8,222 tons; horse. D. W. Townley, supt.
0	S. V. Smith, Cap. \$2,000, Smith, Shaft, 1,000 tons; horse,
Leighton Mahaska Ry. 142,	M. B. Foster, Des Moines, Iowa, Room 500 Iowa Loan & Trust Bldg. H. A. Foster, mgr. Cap. \$25,000, Leighton. Shaft, 50,000 tons; steam. R. T. Montgomery, supt.
Libertyville Jefferson Ry, Collett 137.	A. J. Zimmerman (local). Cap. \$1,500. Lick Creek. Slope, 2,400 tons; horse,
Lockridge. Jetterson Ry, 135.	M. D. Brown. Cap. \$6,000. Coal Port. Shaft, 6,000 tons; horse.
Marysville . Marion Ry, Hamilton 135.	John Venser, Cap. \$300. Yenser, Open pit, 1,700 tons; horse,
Milledgeville Appanoose Ry, Melrose 135.	Fenton & Bros. (local). Shaft, 1,800 tons; horse.
Milo Warren Ry, 135,	N. D. Bales (local), Bales, Shaft, 200 tons; horse,
	8, C. Bryant, Cap, \$2,000. Bryant. Shaft, 3,000 tons; horse, John Peacock, Cap, \$1,500. Scottish Chief. Shaft, 1,621 tons; horse,
Ry. 150.	R. D. Marshall (local). Marshall. Slope, 300 tons; hand.
130 110	
Morgan Valley Marion Ry, 784.	Midland Coal Co., Des Moines, Iowa. F. M. Hubble, prest.; L. M. Martin, seey, and treas.; A. W. Austin, ngr. Cap. 8tk, \$3,096,000. Midland. Slope, shaft, 10,000 tons; steam, J. W. Miller, supt.

Tracy Ry, 635,

### COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE,		
RAILWAYS, WATER ROUTES		
and Shipping Point.		

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name and Kind of Mine, Anntal Ottput in Tons of 2,000 Potnis, Kind of Power Used, Coal Breakers, Washers, Ooke Ovens, and Name of Mine Superintendent,

AND SHIPPING POINT.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.		
TOWN AND COUNTY.			
Mystic Appanoose Ry, 141,	Clarkdale Coal Co., John Clark, prest.; Geo, Clark, seey.; James Clark, treas.; Alex, Clark, mgr, an supt. Cap. stk. \$2,500. Clarkdale. Shaft, 4,200 tons; horse.		
	Iowa & Missouri Coal & Mining Co., Kansas City, Mo., 201-204 N. Y. Life Bildg. Elijah Gates, prest.; Joh H. Owens, seey, and treas, P.C. C. Colt, mgr. Cap. 8th, \$1,500,000. Slope, Shaft; steam. Thom: Woodson, supt.		
44	Lodwick Bros. Cap. stk, \$10,000. Lodwick. Drift, slope, 20,000 tons; horse, L. L. Lodwick, supt.		
**	Mystic Coal & Mining Co., James A. Seddon, prest, seey, and treas.; Wm, Harris, mgr. Cap, stk, \$8,000 Slope, 30,000 tons; horse,		
"	Orr Bros. Cap. stk. \$25,000. Pittsburg. Slope, shatt, 30,000 tons; steam, horse.		
**	Phillips Fuel Co., Oltumwa, Iowa. 4ra Phillips, prest.; Henry Phillips, seey.; E. L. Kirby, treas, Ca stk, \$200,000. Shaft, slope, 25,000 tons; steam, electricity. Wm. Foulkes, supt.		
** **	Raven Coal Co. W. F. Vermillon, prest.; A. A. Highborger, seey., mgr, and supt. C. W. Vermillon, trea Cap. 8(k, §15,000. Raven. Slope; horse.		
** .	B. F. Sliknitter, Cap. \$5,000. Mystle. Drift, 75,000 tons; horse. Walter Cowles, supt.		
New Market, Taylor Ry, 316,	Benjamin Anderson (local). Cap. \$3,000. Anderson's. Shaft, 7,500 tons: horse.		
	Campbell & Sons, Cap. \$2,000. Beau. Shaft, 4,500 tons; horse. R, Campbell, mgr. and supt.		
Ry, 142, 327.	Carson Bros. Cap. \$2,000. Shaft, 2,000 tons; steam. Robert Carson, supt.		
	Newton Coal Co. A. Murdoch, prest.; David Conn, secy.; I. Murdoch, treas. Wm. Conn, mgr, and supt. Cap. stk. \$8,000. Newton. Shaft, 9,000 tons. steam, horse.		
OskaloosaMahaska Ry. 89, 142, 327.	H. E. Evans & Co. Cap. \$5,000. Shaft, 20,000 tons, steam, B. F. Evans, supt.		
	S. C. Guthrie, Cap. \$5,000. Guthrie. Shaft, 6,000 tons, steam, J. D. Guthrie, supt,		
	Iowa Fuel Co., cor. Market and High sts. W. H. Seevers, prest., D. B. Fleming, seey., C. E. Lofland, treas.; E. C. Smith, mgr. and supt. Cap. stk. 875,000. Towa No. t. Shaft, steam.		
**	Long Bros. Cap. 81,000. Shaft, 15,000 tons, steam. Thomas Long, supt.		
Oswalt "Jasper Ry, Valeria 155, 328.	Diagonal Coal Co., St. Paul, Mam. Metropolitan Opera House Bldg. Raymond Du Puy, prest, and treas. Robert C. Wight, seey.; C. G. Kolff, gen. nigr, and supt. (ap. stk. \$250,000. Diagonal. Shart, 150,000 tons; steam.		
Otley Marion Ry, 142.	Marion County Coal Co., Des Molnes, Iowa, H. A. Foster, prest, and mgr. Cap. \$10,000. Otley. Shaft, 40,000 tons; steam. R. Fraser, supl.		
Ottumwa Wapello Ry, 135, 141, 142, 784.	Burch Bros., South Ottumwa, 1027 Church st.   local ). Cap. \$5,000. Pickwick. Shaft, 15,000 tons.   horse, E. D. Burch, supt.		
**	Hawkeye Coal & Mlning Co., 442 Market st. A. C. Caughlan, prest., J. R. Burgess, seey.; E. D. Fair, trens. Hawkeye, Shaft, 30,000 tons; steam, C. W. Grant, supt.		
**	Phillips Fuel Co. Tra Phillips, prest.: Henry Phillips, seey.; E. L. Kilby, treas, Cap. stk. \$200,000, Phillips No. 2. Shaft, 25,000 tons: shaft. Wm. Foulkes, supt.		
	Van Gent & Dixon, 530 E. Main st. Jocal . Cap. \$5,500. Shaft, 20,000 tons; steam. R. H. Dixon, supt.		
Pekay Mahaska Ry, 327.	Whitebreast Fuel Co., Chicago, Ill., 340 Rookery Bidg. J. C. Osgood, prest., C. E. Phelps, seey., G. W. Traer, trens; T. J. Phillips, mgr. Cap. 8tk, \$1,300,000. No. 28. Shaft, 100,000 tons, steam, John T. Phillips, sppt.		
Pella Marion By, 142.	J. M. Markham (local). Cap. \$2,500. Markham, Keystone. Shatt, 1,200 tons.		
	Lewis Woodyard, Chrisman, Tunnel, 2,000 tons. Frank Woodyard, supt		
Redfield, Dallas Ry, 219.	Bott & Bros. Cloud. Slope, 15,000 tons; horse. Thomas R. Bott, supt.		
Red Rock Marion t P. O. Monroe Ry. Dunreith 784.	Hugh McNeish. Cap. \$7,000. Liberty Corner. Tunnel, 1,200 tons, horse, hand,		
Rose Hill Mahaska Ry. 142.	Carey Bros. Cap. \$3,000. Bacon. Shaft, 1,200 tons. horse. M. Carey, mgr. and supt.		
Runnels Polk Ry, 784.	Acme Coal Co., Des Moines, Iowa, 943 W. Walmut st. J. R. Nelson, prest., S. W. Glasgow, seey, and treas.; J. A. Lytle, mgr. and supl. Cap. stk 88,000. Acme. Slope, 15,000 tons. horse.		
	Midland Coal Co. F. M. Hubble, prest., L. M. Martin, seev, and treas., A. W. Austin, mgr. Cap. stk. \$3,000,000. Midland. Shaft, 140,000 tons. steam. J. W. Miller, supt.		
Seymour Wayne Ry, 142, 141.	Chicago Coal Co., Chicago, Ill., 185 Adams 8t. D. C. DeWolf, prest; Albert A. Augustus, seey, and treas., J. M. Varney, ngr., Cap. 8tk, \$50,000. Chicago. Slatt, 45,000 fore; steam. Peter Thomas, supt. Seymont Coal Co., Seymont, Shaft, 10,000 fore, steam. George Elmore, supt.		
Shambaugh Page	Turner & Fulk. Cap. \$3,000. Shambaugh. Shaft, \$,000 tons, horse. W. H. Fulk. supt.		
Ry, Clearmont, Mo., 135. Sigourney Keokuk	B. Romely (local). Cap. 812,000. Sigourney. Shaft, 7,500 tons, horse.		
Ry, 141, 142. Summerset Warren	D. K. Jones, "Jones, Shaft, 2,00) tons, horse,		
Ry, 142. Superior Mines Mahaska P. O. and Ry, Rose Hill 142.	superior Coal Co., Oskaloosa, Ia. Thomas Seevers, prest, and treas , Mrs. J. L. Myr et seevy., J. L. Myrick, mgr. and supt. Cap. 8tk. 82.600. Superior. Shaft. 20.00 tons, ster a		
Two.u. Manian	S. Halbarrell should Mathematic Shope to top. Daniel		

Marion S. Hallowell (local). Hallowell, Slope, 125 tons, hand,

LOCATION OF MINE

### COAL BITUMINOUS (CONTINUED)

Location of Mine, Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,600 POUNDS, KIND OF POWER USED,  COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
Tracy	Samuel Ream (local), Cap. \$2,500. Cedar. Open pit, 240 tons; hand.	
Van MeterDallas Ry, 142.	Chicago & Van Meter Coal & Mining Co., Ft. Dodge, Iowa, 901 W. Market st. James L. Platt, prest., treas, and mgr.; R. B. Berryhill, secy. Cap. stk, \$100,000. No. 1. Shaft, 30,000 tons; steam. F. A. White, supt.	
What Cheer Keokuk Ry, 87, 150,	Armstrong Coal Co. Joel Stewart, prest.; Sam Gillfoy, secy, and treas.; W. B. Armstrong, mgr. Cap. stk. \$40,000. Armstrong. Shaft, 82,784 tons; steam. John Donovan, supt.	
	William Blatt. Black Diamond. Shaft, 1,600 tons; horse,	
**	Carl & Irvin Bros. Joseph Irvin, prest.; Fred. Carl, secy., mgr. and supt. W. Irvin, treas. Cap. stk \$5,800. Shaft, 3,000 tons; steam.	
** ***	Crescent Coal Co., Andrew Langdon, prest.; J. S. Chipman, seey, and treas.; S. W. White, mgr. Cap. stk. \$50,000. Crescent, Nos. 1 and 2. Shaft, 127,637 tons; steam, electricity. Martin Coleman, snpt.	
54	Keystone Coal Co. S. P. Pascoe, prest, and treas.; J. J. Pascoe, seey., mgr. and supt. Cap. stk, \$50,000. Keystone. Slope, 6,940 tons; horse.	
99.	Morgan & Garlan, "Q" Mine. Slope, 300 tons; horse.	
** ************************************	What Cheer Coal Co. E. N. Saunders, prest, and treas.; G. A. Wheeler, secy. Shaft, 125,000 tons; steam, compressed air. E. M. Trescott, supt.	
Zenorsville Boone Ry, Gilbert Sta. 150.	Hutchison Bros, & Son. James Hutchison, prest.; R. B. Hutchison, secy, and treas.; John Hutchison, mgr. Cap, \$10,000. No. 1. Shaft. 7.875 fons; horse. W. C. Hutchison, supt.	
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# GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT,	NAME OF COMPANY OB INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFOT IN TORS OF 2,000 FOURDS, KIND OF FOWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Fort Dodge Webster Ry, 142, 319.	łowa Plaster Association. 4. Blouden, prest.; G. S. Ringland, vprest.; Leon Vincent, secy. Open pit: steam.
· · · · ·	Duncombe Stucco Co, John F, Duncombe, prest.; C. F, Duncombe, secy., treas, and mgr. Cap. stk.

#### LEAD AND ZINC

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOC NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNIXAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, SMELLERS, ETC., AND MAME OF MINE SUPERINRENDENT.	
TOWN AND COUNTY.		
	h—	
Dubuque Dubuque Ry, 141, 319.	E. T. Goldfhorp & Co., 363 Alfa Vista st. N. H. Snow, prest.; W. A. Jones, seey, and freas.; E. T. Goldfhorp, mgr. and supt. Dubuque, zinc. Shaft, 1,000 tons; horse.	
• "	Trueb, Southwell & Co., 363 Alta Vista st. J. Trueb, prest.; S. Southwell, secy.; A. Trueb, treas.; E. T. Goldthorp, mgr. and supt. Cap. stk. \$10,000. Alpine Blossom, zinc, lead. Shaft, 2,000 tons; horse, E. T. Goldthorp. State.	

STONE, MARBLE, GRANTE AND ONTA			
Location of Mine or Quarry, Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMFANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAFITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STORE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARDLE MILLS, LIMERLINS AND CAFACITY, ETC., AND NAME OF MINE SUFFRINTENDENT.		
	Mason City Stone Co. Adin Randall, prest.; W. E. Randall, seey, and mgr. O. T. Denison, treas. Capstk. 86,000. Mason City, sand and limestone. Open pits; steam.		
Stone City Jones Ry, 141.	H. Dearborn & Sons, Stone City, limestone. Open pit, 50,000 tons; steam and horse, H. Dearborn, supt.		

SEE ALSO SUPPLEMENTARY LIST

# KANSAS

### COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name and Kind of Mine. Annual Output in Tons of 2,000 Pounds. Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.	
TOWN AND COUNTY.		
ArcadiaCrawford Ry, 348.	G., W. Campbell. Cap. \$1,000. Campbell's. Open pit, slope, 6,000 (ons; hand.	
* **	Wm. Dinsmore (local). Bunker Hill. Strip.	
Arvonia, Osage Ry, Lebo 26,	W. J. Jeremy (local). Open pit, 200 tons,	
*	Rees Lewis (local). Cap. \$150. Lewis. Tunnel, 100 tons; hand,	
	Morris & Bebb (local). Open pit, 300 tons,	
	Mrs. H. Umdenstock (local). Open pit and tunnel, 425 tons; hand,	
Azua	H. McCorkle, Cap. \$4,000. McCorkle, Open pit 300 tons; hand, horse,	
Bayne Lincoln Ry, Lincoln 776.	N. B. Allen (local). Cap. \$6,000. Ingalls. Shaft, 1,000 tons: horse.	
Bunker Hill (Russell Ry, 776,	Joseph Menzier, Menzier, Open pit, t,200 tons; hand,	
Ry, 26,	Eliza Armstrong, Cap, \$5,000. Boss. Shaft, 6,000 tons; horse, W. Foster, supt.	
**	Central Coal & Mining Co. Cap. stk. \$1,000. Central. Shaft; hand. Alfred E. Cole, supt.	
**	Jack's Coal & Mining Co. John D. Jack, mgr. Cap. stk. \$4000. Burke's, 1,000 tons; horse, hand.	
	Sarah Mings, Cap, \$1,000. Central. Open pit; hand, Alfred E. Cole, supt.	
44	Richard Underwood, Cap. \$1,000. Eureka. Shaft, 300 tons; horse,	
CarbondaleOsage Ry, 26, 355.	D. P. Clement, Cap. \$5,000. Clement's, Open pit, slope, 1,000 tons; horse,	
**	John Coffman (local). Open pit, 600 tons, hand,	
" "	H. J. Hartman (local). Cap. 8500. Hartman. Open, 200 tons; horse,	
	T. N. Thomas, Carbon Hill, Kan, Cap. \$1,000. Eagle. Slope, 1,600 tons, horse,	
**	Wm, H. Thomas, Cap. \$1,200. Excelsior, Shaft, 6,000 tons; horse,	
Center Russell P. O. and Ry. Bunker 11ill 776.	N. E. Warner (local). Cap. \$100. Spring Creek. Slope, 70 fons, hand,	
Cherokee Crawford Ry, 348, 460.	H. Germain. Cap. \$10,000. Open pits, 6,000 tons; horse,	
Chetopa Labette Ry, 459, 460,	T. A. Yadon (local), Cap. 856. Trott, Open pit, 100 tons, horse,	
Ry. 348,	John Bishop (local). Open pit, 50 tons; horse, hand.	
Ry. 348.	Bell & Co. Bell. Drift; hand. J. W. Davenport, supt.	
Ry, 348, 720,	George Robinson, Robinson, Shaft, Laso tons; horse,	
Ry, Lincoln 776.	Mike Morris Jocal. Buseman's, Shaft; hand, W. B. Smith Jocab. Cap. \$2,000. J. X. L. Shaft, 500 tons, horse,	
FlemingCrawford	Western Coal & Mining Co. St. Louis, Mo. Sixth and Logist sts. Edwin Gould, prest : D. S. H. Gould.	
Ry. 460,	Western Coal & Mining Co., St. Louis, Mo., Sixth and Locust sts. Edwin Gould, prest.; D. S. H. Gould, seey, and treas. R. M. McDowell, v-prest, and negr. Cap. stk. \$1,000,000. Flemling, 2 and 3. Shaft and slope, 150,000 fores, steam, Jossiah Lane, supt.	
Fort Scott Bourbon Ry, 348, 460,	Newton Chase   local). Open pit, 60 tons; hand,	
**	Francis Ferree & Sons. Cap. \$20,000. Ferree. Tunnel, open pit, 5,000 tons., hand, horse. J. W. Ferree, supt.	
** .	Thomas Hill (local). Hill, Open pit, 80 tons; horse,	
44 44	Wm. Peerman (local). Dalton. Open pit; horse, hand.	
Ry. 26.	Cherokee & Pittsburg Coal & Mining Co., Topeka, Kan. A. Manyel, prest.; E. Wilder, treas.; Chas. J. Devlin, mgr. Shaft, 26,000 tons, steam. Robt, T. Herreke, supt.	
Ry, 348.	G. W. Pellett (local). Cap. \$500. Pellett's. Open pit, 1,000 tons.	
Ry. 348.	N. D. Curtis (local). Open plt; hand.	
Lansing Leavenworth Ry. 26, 348, 400, 776,	Kansas State Penitentiary, Geo. H. Case, warden. Penitentiary. Shafts, 80,000 tons: steam; ovens, 70 tons. Oscar F. Lamm, supt.	

Leavenworth, Leavenw'th Home Mining Co., H. D. Rush, prest ; C. S. Hartongh, seey.; W. C. Sprague, treas.; Peter Straus, mgr. Ry, 26, 144, 145, 348, 450, and supt. Cap. stk. 800,000. Home. Shaft, 50,000 tons; steam.

### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT,	NAME OF COMFANY OR INDIVIDUAL LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVERS, AND NAME OF MINE SUFFRINTEMEMENT.		
TOWN AND COUNTY.			
Leavenworth Leavenw'th (Continued.)	Leavenworth Coal Co., north end of Second st. Lucien Scott, prest.; Tiffin Sinks, seey.; J. E. Carr, treas., mgr. and supt. Cap. stk. \$300,000. Leavenworth. Shaft, 120,000 tons; steam, electricity, rope.		
Lebo Coffey, Ry. 26.	John Bothstadt. Open'pit, 600 tons; horse.		
** **	Hugh Jones (local). Open pit, 600 tons.		
**	W. M. Phinney. Open pit, 240 tons; horse, hand.		
*	Geo, Reid (Iocal). Tunnels, 5,000 tons; land.		
** **	W. A. Richardson. Cap. \$2.785. Red Flag. Open pit; horse, Louis Siebuhr. Open pit, 800 tons; horse,		
	J. R. Woodworth. Cap. \$2,000. White Star. Open pit, 3,000 tons; horse, hand.		
Lincoln Lincoln Ry, 776.	Ben Goode & Sons (local). Cap. \$4,000. Shaft, 200 tons; horse.		
	Kansas & Texas Coal Co., St. Louis, Mo., Fourth and Olive sts., Laclede Bldg. B. F. Hobart, prest.; W. P. Heath, seey, and treas. Shaft, open pit: steam. D. Ramsey, supt.		
McCune Crawford Ry, 348,	W. Huntsinger (local). Cap. \$3,000. Huntsinger. Open pit, 1,300 tons; horse, hand.		
	Pittsburg & Midway Coal Co. E. H. Brown, prest, and mgr.; John T. Morrison, seey, and treas. Capstk. \$200,000. Mines 1, 2 and 3. Shafts, 106,000 tons; steam. J. T. Morrison, supt.		
MinersvilleCloud Ry, Concordia 26, 88, 460, 776.	Alexander Henderson. Shafts, 5,000 tons; horse,		
**	T. P. Kirk & Hoy. Cap. \$3,000, Murray, Slope, 2,000 tons; horse, J. Gushaway, supt.		
Orchard Linn	William Weitzel, Cap. \$1,000, Minersville, Shaft, 2,000 tons; horse, T. W. Gage (local), Cap. \$1,000, Harrison, Shaft, 2,000 tons; horse,		
P, O, and Ry, La Cygne 348,			
Ry, 26, 460.	Black Diamond Coal Co. Cap. stk. \$5,000. Shaft, 11,000 tons; horse. J. M. Hershey, supt. and mgr.		
44	Wm, Louisberry (local), Fulton, Kan. Open pit and shaft, 1,000 tons; hand.		
	Osage Carbon Co., Topeka, Kan, A. Manvel, prest.; E. Wilder, seey, and treas.; C. J. Devlin, mgr. No. 2. Shafts, 77,914 tons; horse. Robt, Craig, supt.		
**	Pittsburg Coal, Laod & Mining Co. W. T. Williams, prest.; E. E. Dome, secy. Cap. stk. \$10,000. Pittsburg. Shaft, 6,000 tons; horse. John Ogrin, supt.		
Down or other transport	L. Baker. Cap. \$3,000. Oswego, Pit, 800 tons; horse,		
Ry, 348,	G. F. Lunquest. Open pit, 1,000 tons; horse, hand.		
Peterton Osage Ry, 26.	Wm, Fletcher (local). Open pit; hand.		
4	N. C. Standiford. Cap. \$1,000. Farmer's, Open pit, 700 tons; horse, hand.		
Pittsburg Crawford Ry. 26, 348, 460, 720.	Kansas & Texas Coal Co., St. Louis, Mo., Fourth and Olive sts., Laclede Bldg. B. F. Hobart, prest.; W. P. Heath, seey, and treas. Shaft and open pit: steam. D. Ramsey, supt.		
****	Minerd & Co., cor. Third and Broadway. W. B. Calhoun, mgr. Cap. stk, \$25,000. New York. Shaft, 30,000 tons; steam. J. H. Minerd, supt.		
W 11 11 11 11 11 11 11 11 11 11 11 11 11	Montgomery & Sheets, Cap. \$1,000. Open pit. 1,200 tons: hand. David Ramsey, supt.		
**	C. L. Stotts & Co. (local). Butler. Open pit, 30 tons.  Work Coal Co. Toxolog. Kan. 110 W. Siyth et. E. F. Work proof of C. Work F. proof of N. S. Work Sooy.		
	Wear Coal Co., Topeka, Kan., 110 W. Sixth st. F. E. Wear, prest.; T. G. Wear, vprest.; N. S. Wear, seey. Cap. stk, \$50,000. Shaft, 150,000 tons; steam. A. B. Kirkwood, supt.		
	Wear Coal Co., Topeka, Kan., 110 W. Sixth st. F. E. Wear, prest.; T. G. Wear, vprest.; N. S. Wear, seey. Cap. Stk, \$50,000, No. 2. Shaff, 120,000 fons; steam.  Nuo Cond. Co., Phys. Flouring, prest and treat. J. M. Flouring, seey, and may. Cap. 8th, \$50,000.		
Ry, 348, 460,	No. 1. Shatt, 15,876 tons; steam. Hugh Reid, supt.		
	Pleasanton Coal Co. Alfred Blaker, prest.; W. W. McCallough, secy. and treas.; A. L. Humpbrey, mgr. Cap, stk, \$10,000. Pleasanton No. 1. Shaft, 10,000 tons; steam.		
Postnorus Parachtin	Thomas Staton. Open pit, 2,500 tons; hand.		
PomonaFranklin Ry, 26, 460	Dyer & Graves, Cap. \$500. Dyer, Tunnel, 2,500 tons; hand, F. E. Dyer, supt.		
	Paynfer & Challand Coal Co. Cap. \$5,000. Pomona. Shaft, tunnel; steam, compressed air. J. P. Paynfer, supt.		
Prescott Linn Ry, 348,	Edwin S. Belangy, Cap. \$7,000. Link. Open pit, 4,400 tons; horse.		
**	J. C. Billings, Cap. \$6,000. Billings, Open pit, 500 fons; horse,		
	John Brown sr. Cap. \$200. Brown's. Open pit, 2,000 tons; horse, hand.  J. T. Durkin (local). Open pit, 300 tons.		
	J. J. Ham, Cap. \$300. Ham, Open pit, 2,500 tons; horse. Elmer Ham, supt.		
Quenemo Osage Ry, 26, 400.	John Boyle (local). Osage. Shafts; horse, Pat, Ryan, supt.		

### COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUT AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Oapital Stock, Name and Rind of Mine, annual Output in Toks of 2,000 Pounds, Rind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine, Superintendent.
fown and Coun	
tuenemoOsa (Continued.)	ge A. S. Mason (local). Cap. 8300. Drift; hand.
Quindaro Wyando Ky. 355.	te Sunflower Coal & Mining Co., Kansas City, Mo., 706 Wall st. John E. Carr, prest, and supt., R. Stewart, sery.; W. J. E. Carr, treas.; J. Oswald Clarke, mgr. Cap. 8tk. \$150,000. Sunflower, sha 310,000 tons; steam.
tansomville Frankl Ry, 26.	m Caples & Bro. Ransom. Tunnel, 3,000 lons; hand. George Caple, supt.
	Ransom & Sims. Cap. \$3,000. Ransomville. Shaft, 12,000 tons; horse. James Sims, supt.
tussellRuss Ry, 776.	II. L. D. Smith & Co. (local). Smith. Shaft, 200 tons; horse.
cammon . Cherok Ry. 348, 720.	66 Keith & Perry Coal Co., Kansas City, Mo., 905 Walmut st. R. H. Keith, prest.; E. E. Bliey, seey.; Dax Mackle sr., treas, and supt.; John Perry, vprest, and mgr. Cap. stk, 8800,000. Keith & Perry. Shaf 150,000 fors; steam.
** **	Norton Coal Co., Baxfer Springs, Kan. W. S. Norton, prest, and mgr., E. R. Pattyson, seey.; M. E. N ton, freas. Cap. \$50,000. Norton, No. 2. Shaft, 60,000 tons; steam. John Zhumerman, supt.
scranton Osa Ry, 26.	ge Bell Bros. Cap.\$10,000. Bell's. Shaft, 15,000 tons; horse. Duncan Bell, supt.
" "	Osage Carbon Co., Topeka, Kan. A. Manyel, prest.; E. Wilder, seey, and freas. C. J. Devlin, mgr. 1. Shafts, 53,533 tons; horse. Robt, Cralg. supt.
· · · · · · · · · · · · · · · · · · ·	P. Ryan & Co. P. Ryan, treas.; John Hoolihan, mgr. Cap. 8tk, \$6,000. Shaft, 7,200 tons; horse. The Elwood, supf.
sherman City - Cherok Ry, Columbus 348, 7	
Silver Lake Shawn Ry, 776.	e Wm. H. Forles & Co. Wm. H. Forles, prest.; R. M. Forles, seey, and supt.; J. H. Forles, treas.; Ro Forles, mgr. Cap. \$50,000. Silver Lake. Shaft, 11,000 tons; horse.
tippvllleCherok ft. O. and Ry. Colu bus 26, 348.	ee Columbus Coal Co. T. P. Anderson, prest., J. W. Spencer, seey, and mgr.; E. E. Trotter, treas. Cap.s \$10,000, No. 2, Shaft, 47,332 tons, steam, C. Newlands, supt.
Vaverly Coff Ry, 26, 460,	y A. P. Ingleman Jocal . Open pit, 280 tons; horse,
Velr Cherok Ry, 348, 720.	ee Central Coal Co. Cap. \$15,000. Daisy. Shaft, 60,000 tons, steam. Jas. Dennis, mgr. and supt.
	J. H. Durkee Coal Co., Fort Scott, Kan. J. A. Durkee, prest.: J. H. Durkee, seey., treas, and mgr. C. stk. \$25,000; surplus \$50,000. Weir City. Shatts, slopes, 130,000 tons; steam. Joseph Humble, supt
	Kansas & Texas Coal Co., St. Louis, Mo., Fourth and Olive sts., Laclede Bldg. B. F. Hobart, prest., W. Heath, seey, and treas. Shaft, open pit. steam. D. Ramsey, supt.
	Keith & Perry Coal Co., Kansas City, Mo., 996 Walmut st. R. H. Keith, prest.; E. E. Elley, secy.: Da Mackle st., treas, and supt., John Perry, vprest, and mgr. Cap. stk. \$800,000. Keith & Perry, Sha 200,000 tons: steam.
Williamsburg Frank Ry. 26.	in L. Brown. Open pit, 400 tons; horse.
44	Franklin Coal Co. Coal Creek. Drlft, 30,000 fons; hand.
	J. T. Morgan (local). Morgan. Tunnel, 400 tons. hand.
0 0	Pearson & Alexander. Shaft, open pif, 400 tons, horse. P. O. Pearson, supt.
	Price & Rusbatch [local]. Tunnel, 125 tons.

#### GYPSUM

LOCATION OF MINE, AND SHIPPING POINT. AND COUNTY.

NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PHINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF VIDE, ANNIAL OFFICE IN TOS OF 2000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINFERSEMEN.

Blue Rapids Ry, 460, 776,

Marshall Blue Rapids Plaster Co. T. M. Fowler, prest., H. G. Fowler, seey., treas, and mgr. Cap. 8tk. \$50,000. Timnel, 9,000 tons: horse, band; mill. W. H. 10tl, supt. Ollion . . . . Dickinson Saline Cement Plaster Co., Saline, Kan. M. J. Weilslager, prest; M. M. Briggs, v.-prest; Fred. H. Quincy, seey; P. L. Gebhart, treas. Cap. stk. \$150,000, Open pit; steam; mill, 50,000 tons. W. M. Reese, suptl.

. . . Saline Acme Cement Plaster Co., Salina, Kan. W. W. Watson, prest, and mgr. E. Tupper, seey, and supt.: J. M. Wellslager, freas. Cap. stk. \$55,000. Open pit, 75,000 tons: steam, mill, 54,000 tons.

Medicine Lodge : Barber | Best Bros. & Co. | Thomas Best, mgr. and supt. | Cap. \$55,000. | Open pit, 7,000 tons; hand, steam; mill, 8,000 tons.

#### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF ZAM FOUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Galena Cherokee Ry, 348, 720.	Cornwall Mining & Smelting Co. J. P. Kleinfield, prest.; J. A. Walbert, secy, and supt. Cap. stk, \$30,000. Cornwall. Shaft, 400 tons; free; steam, horse.
49	Empire Mining Co. Jas. Murphy (lessee), Empire City, Kan. Cap. \$32,000. Galena. Shaft, 1,002 tons; steam,

#### LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTE AND SHIPPING POINT,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OPFICERS, CAPITAL STOC NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNT		
Galena Cheroke Ry. 348, 720.	e Annie Laurie Mining Co., St. Louis, Mo., Broadway and Locust. John F. Shepley, prest.; C. A. Cunning ham, seev, and treas.; Green Lansford, ingr. and supt. Cap. stk. 85,000. Annie Laurie, lead and zine Shaft, Golf tons; steam.	
	Boice & Son. Cap. \$15,000. Lead and zinc. 1,500 tons; steam, horse; breakers. J. H. Boice, supt.	
" "	Boughten, Forman & Buck. Geo. II. Boughten, prest.; F. H. Boughten, secy.; Gordon Boughten, treas and supt.; Paul Hopeman, mgr. Cap. stk. \$10,000. Schermerhorn, Big Six, Crystal, lead and zinc a Shalt, 2,800 tons; steam, horse.	
	Central Mining Co., Main and First sts. W. R. Cowley, prest.; E. S. Morton, secy.; John Page, treas. A. E. Maitland, mgr. and supt. Cap. stk. \$15,000. Lead and zinc. 685 tons; steam, horse.	
"	Clement Mining Co., Joplin, Mo. W. W. P. Clement, prest.; John P. McCann, secy.; Thos. Conner. treas. D. S. Brewster, mgr. Cap. stk, \$24,000. Clement, lead and zinc. 2,715 tons; steam. W. F. Phillips supt.	
	John M. Cooper Mining & Milling Co. John M. Cooper, prest.; E. B. Schermerhorn, secy., treas, and mgr. Cap. stk. \$100,000. Shaft, 1,971 tons; steam, horse.	
44	Cooper & Schermerhorn, Cap. \$100,000, Lead and zinc. Shaft, 1,915 tons; steam, horse.	
**	Robert Crowe, E. J. Tutty, mgr. Cap. \$5,000. Crowe, galena. 2,600 tous; steam.	
**	Al. Emmons & Bro. Cap. \$8,000, Lead, zinc. 3,000 tons; horse, steam,	
*	Galena Lead & Zine Co. E. Zelleken, prest.; A. C. Spring, secy.; John Henricks, treas.; Peter Rice, mgt and supt. Cap, stk. \$175,000. Galena, lead and zine. Shafts; steam, horse, hand.	
	Maggie Taylor Mining & Smelting Co. P. W. Perkins, prest.; A. H. Hunt, seey.; C. O. Stockslegor, treas. J. A. Walbert, mgr. and supt. Cap. stk. \$50,000. Maggie Taylor, galena. Shafts, 251 tons; horse steam.	
**	Mall Reed Paint Co. C. L. Mall, prest., treas, and mgr.; F. Weber, secy. Cap. stk. \$12,500. Mall Reed lead and zinc. Shaft, 55 tons; steam, horse. C. L. Mall, supt.	
	Ohio Lead & Zinc Mining Co. B. Cooley, prest, and mgr.; K. J. Cooley, secy, and treas. Cap. 8tk. \$20,000 Shafts, 20,000 tons; steam, horse.	
	Queen Bee Mining Co. Alex, Walkenshaw, mgr. and supt. Queen Bee, lead and zinc. Shaft; steam.	
**	Shenango Mining Co., Joplin, Mo. Alfred Bloker, prest.; O. H. Picher, seey.; Phil. J. Pfenning, mgr. Capstk., \$25,000. Shafts, 2,000 tons; hand, steam, N. U. Wilson, supt.	
**	South Side Mining & Manufacturing Co. W. B. Stone, prest.: W. H. D. Brown, seey.; W. E. Stice, treas. Thos. Moonlight, mgr. and supt. Cap. stk. \$500,000. Lead and zinc. Shafts, 10,500 tons; stemn, horse	
	W. B. Stone, Cap. \$25,000. Homestake, galena. Shafts, 2,151 tons; steam. Robt, O'Hare, supt.	
	W. B. Stone & Howard Gove, Cap. stk. \$25,000. Folmer Tract, lead and zinc. Shafts; steam. W. A. Stone, supt.	
	Williams & Robeson, Cap. \$10,000. Zinc, lead. Shaft, 100 tons; steam.	
	Wyandotte Lead & Zinc Co. F. S. Roice, prest.; L. J. Haines, seey.; E. B. Schamerhorn, treas.; J. H. Boice, mgr. Cap. stk, \$25,000. Wyandott, lead and zinc. Shafts, 1,500 tons; steam. E. St. Georg Bohle, supt.	

#### MINERAL PAINT

LOCATION OF MINE,				
RAILWAYS, WATER ROUTES				
AND SHIPPING POINT.				
Town	AND	COUNTY.		

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2,000 POUNDS, KIND
OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINREMORN.

LOCATION OF MINE

### SALT

OR WELL, RAILWAYS, WATER ROU AND SHIPPING POINT	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000  POUNDA, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
Town and Cour	
Anthony	per Anthony Salt Co. Geo. W. Maffet, prest.; T. B. Smith, seey, and treas.; Lew Sargent, mgr. and supt. Cap. stk. \$50,000. Anthony, common, fine. Wells, 14,000 tons; steam.
**	Globe Salt Co. T. B. Smith, prest.; M. L. Sargent, secy. Cap. stk, \$50,000. Globe, fine, dairy. Wells, 10,000 tons; steam.
Hutchinson R Ry. 26, 142, 318, 460,	eno Barton Salt Co. Barton, common, fine, Wells, 47,885 tons; steam.
**	Kansas Salt Co., R. R. Price, prest.; J. W. Mulkey, secy, and treas.; W. L. Moore, mgr. Cap. stk. \$1,000, 000. Common, dairy. Wells, 50,000 tons.
*	The Star Salt Co. R. E. Conn, prest, and mgr.; W. R. Randle, seey, and treas. Cap. 8tk. \$50,000. Star, common, fine, dairy. Well, 8,000 tons; steam. R. E. Conn, supt.
Kanopolis Eliswe Ry, 460, 776.	rth Royal Sall Co., Kansas City, Mo., New York Life Bidg. J. S. Crowell, prest.; R. A. Worthington, secy., John H. Thomas, treas; S. E. Baker, mgr. Cap. 8tk, 8500,000. Royal, rock. Shaft, 85,000 tons; steam, James Cowle, 8nd.
Kingman Kingr Ry. 26, 318, 460.	nam Farmers' & Drovers' salt Co. F. A. Parsons, mgr. Fine, evaporated. Well, 2,500 tons; steam.
**	Kingman Rock Salt Co. Shaft, steam.
Lyons	Rice Lyons Rock Salt Co., St. Louis, Mo., Globe-Democrat Bidg. Alfred Bevis, prest.; C. H. Longstreth, seey.; Jean F. Webb, vprest., treas, and mgr. Cap. stk. \$450,000. Salt wells, 50,000 tons; steam.
**	Midland Rock Saft & Mineral Co., Cleveland, Ohio. Dan P. Eells, prest.; H. W. Gebauer, seey.; Howard P. Eells, freas.; John P. Brisben, ingr. Mulland, rock saft. Shafts, 100,000 tons. Geo, M. Anderson, supt.
Solomon City,Dickln Ry, 26, 442, 776.	Solomon Solar Salt Co., Kansas City, Mo., 709 Walnut St. L. J. Talbott, prest.: John R. Ranson, secy., treas, and mgr. Cap. stk, \$30,000. Solomon, coarse, fine. Well, 2,000 tons; steam. J. Samuel Winsatt, supt.
Sterling	tlee Sterling Salt Co. T. H. Brown, prest.; Dr. P. P. Trucheart, seey.; J. C. Turner, treas, and mgr. Cap. stk. \$24,000. Coarse. Wells, 13,000 tons; steam.
Wellington, Sum Ry, 26, 145,	ner D. A. Espy. Coarse. Well, 5,000 tons; water,

SEE ALSO SUPPLEMENTARY LIST

# KENTUCKY

#### COAL-ANTHRACITE

LOCATION OF MINE, NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND SHIPPING POINT. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT. Webster | Henry Rowland, Slope, 640 tons; horse, Carlow .... Ry, 612. Hindman . Knott R. S. Cornett (local). Sassafras, Kv. Cap, \$3,000. Open pit; hand, P. O. Ry. Jackson 362, Knottsville ... Daviess C. E. Coomes (local), Cap. \$500. Hobbs, Tunnel, 200 fons; hand, Ry. Owensboro 407, 408 Milton Roberts (local), Cap. \$500, Roberts, Open pit; hand, Laurel Creek Ry. London 408, J. L. Hornsby & Sons (local). J. L. Hornsby, prest, and supt.; H. C. Hornsby, secy, and treas.; Isaac Hornsby, ingr. Cap. \$25,000. Laurel Creek. Open pit, 3,000 tons; steam and water. y..... Laurel Ry. 408. Lily Conl Co. C. Croak, prest.; S. W. Hodge, seey.; J. C. Wilder, treas.; Roscoe Lodge, mgr. Cap. stk. \$100,000. Lily. Tunnel; hand. Frank Elliott, supt. Line Creek... . Pulaski John M, Mayfield (local). Lace's Fork. Tunnel; hand. Ry, Somerset 612. Pleasant... Martin S. D. McCoy (local). Open pit, 3 tons; hand. Ry. Peach Orchard 537 COAL-BITUMINOUS LOCATION OF MINE. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. RAILWAYS, WATER ROUTES NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND SHIPPING POINT. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT. AND COUNTY. deen ... Butter Aberdeen Coal & Mining Co., Morgantown, Ky. E. P. Aspley, prest.; G. D. Render, seey, and treas.;
Ry, 298a. James F. Phillips, mgr. and supt. Cap. stk. \$20,000. Aberdeen. Open pit, drift, 40,000 tons; horse, hand. Ætnaville..... . Ohio Justice Simpson. "Etnaville. Drift; hand. Ry. 360. Alphoretta Floyd S. P. Dingus & M. C. Spencer (local). Tunnel; hand. Ry, Prestonburg 537 oine......Pulaski Ry. 166, Alpine. Richmond Coal Co., Chattanooga, Tenn., Keystone Block, C. B. Finley, prest.; T. L. Richmond, secy. and treas. Cap. stk. \$25,000. Richmond. Drift, 50,000 tons; compressed air. E. A. Foster, supt. Altamont Coal Co. C. Crooke, prest, and mgr.; F. E. Sampson, seey.; W. P. Crooke, treas. Cap. stk. \$200,000. Altamont. Tunnel, 60,477 tons; steam, horse. J. C. McK, Richardson, supt. Altamont . . . . . Laurel Ry, 408, Vaughn Mining Co., Tyner, Ky. Cap. \$2,000. Vaughn. Open pit, 20,000 tons; hand. James St. John, supt. Ry, East Bernstadt 408, Back Bone........Elliott J. K. Pennington (local), Tunnel; hand, Ry, Willard 242. M. M. Rice (local). Tunnel: hand, Barnett's Creek, Johnson William Trimble (local), Tunnel; hand. Ry. Paintsville 537. ...Hopkins Coöperativ Mining & Manufacturing Co. John Duning, prest.; S. Platt, seey, and treas. Cap. stk. ton 408. \$50,000. Coöperative. Drift, 32,000 tons; horse, Ry, Earlington 408. Baskett . . . . Henderson Baskett Coal Co. C. L. Nall, prest.; R. 8. Easton, seey, and treas.; William Jamieson, mgr, and supt. Ry, 407. Cap. stk, \$25,000. Baskett. Shaft, 50,000 tons; steam. Beattyville ... Lee John G. McGuire (local). Tunnel; hand, lty. St. Helens 302. . Ohio Mrs. Martha P. Ward (local). Open pit, 24 tons; hand, Ry. Beaver Dam 499. McLean W. H. Hardin (local). Tunnel, 100 fons: hand, horse. Ry. Wrightsburg 298a.

- Ow.dey ( Richard Reynolds & A. D. Brandenburgh, Cap, \$15,000, Reynolds, Tunnel, 6,000 tons; band,

, Ow Jey S, Isaaes & Nelson Price (local). Isaaes. Open pit, so tons, Buck Creek Ry. St. Helens 362.

Bee Spring ... Edmanson John F. Meredith (local). Tunnel: hand.

Ry, Grayson Spgs, 499,

Ry. Richardson 537

Booneville

Ry. 362.

John L. Hudson (local). Slope; horse.

Johnson Wm. A. Wells (local). Cap. \$3,000. Tunnel, 20 tons; hand.

Powell | W. B. Coughlin, Slade, Ky. Branch, Tunnel; hand, H. S. McKnobb, supt.

COAL BITUMINOUS (CONTINUED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, annual Output in Tons of 2:00 Pounds, Kind of Power Used, Coal Breakers, Washfis, Coke Ovens, and Name of Mine Superintendent.	
	W. F. Amburgey & Peter Madden docab. Tunnel; hand.	
Ry. Jackson 362.		
Rý. Louisa 537,	A. J. Thompson, Cap. \$1,500. Tunnel, 20 tons.	
	Webb & Bussey (local). Tunnel; hand,	
ByronClay Ry, London 408.	Jerry Benge (local). Open pit, 70 tons; hand,	
Caneyville Grayson Ry, 499.	Samuel Preston (local). Tunnel, 200 tons; hand.	
Centretown Ohio Ry, Beaver Dani 499.	Amsiah Carter (local). Tunnel; hand, 100 tons.	
0	L. C. Morton (local). Tunnel, 240 lons; hand.	
	J. P. Tichenor (local). Open pit, 175 tons; hand,	
Central CityMuhlenberg Ry, 490, 549.	Central Coal & Iron Co., Louisville, Ky., 410 W. Main St. B. du Pont, prest., Ranner Coleman, seey, and treas.; Thomas J. Tapp, vprest. Cap. stk. \$400,000. Central. Shaft, 125,000 tons; steam. James Stephens, supt.	
Chavies	Hikman & Co. D. L. Hikman, prest.; O. J. Chandler, seey.; R. Sighmore, treas.; J. Hikman, mgr. Cap. stk. \$6,000. Miller's Branch. Open plt, 6,000 tons. E. Duth, supt.	
** **	J. L. Moon, K. Co., J. L. Moon, prest.; P. F. Johnson, seey.; J. A. Duff, treas.; G. W. Martin, mgr. Cap. stk. \$50,000. Chayles. Open pit, 2,000 tons; hand.	
Clay Webster Ry, 362.	A. E. Cullen, Cap. \$12,000. Wallace. Drift, slope, 800 tons; mule.	
W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W. A. Galbralth (local). Cap. \$1,000. Open pit, drift, 800 tons; hand.	
41	James M. Hasbilt. Cap. \$1,500. Open pit, sor tons; hand.	
Cloverport Breekenridge Ry. 76, 407.	Sloan & Clark, New Hope. Tunnel, 5,000 tons; hand.	
Cora Carter Ry, Lawrenceburg 408,	F. M. Kiser (local), McGlone, Ky. Cora. Tunnel, 1,000 tons; hand. Wm. Kiser, supt.	
Corydon . Henderson Ry, 536.	Corydon Coal & Mining Co. H. A. Powell, mgr. Corydon. Shaft, 70 tons: hand. B. M. Powell, supt.	
Crockettsville "Breathitt Ry, Athall 362.	James G. Deaton. Daniel Thompson, mgr. Cap. \$5,000. Crockettsville. Open pit, 500 tons; hand, James G. Deaton, supt.	
Cutch . Floyd Ry, Preston 499.	Noah Stone, Dotson, Ky. Fitz Patrick. Open pit; horse, hand,	
Danleyton Greenup Ry, 132.	J. W. Dingess (local). Open funnel, hand,	
	J. S. Meadors (local). Tunnel, horse,	
	Olilo Valley Coal & Mining Co. S. S. Brown, prest.; S. P. Sturgis, seey, and mgr.; N. M. Jones, treas, Cap. 8tk, \$230,000. De Koven. Slopes, 50,000 tons; steam, 40 coke ovens. John Whitehead, supt.	
Denton Carter Ry, Mt. Savage 151, 499.	Strait Creek Coal Co., Mt. Sterling, Ky. M. M. Cassldy, prest., Wm. Mitchell, treas.; Kent Pritchard, mgr, and supt. Cap. stk. \$100,000. Strait Creek. Tunnel, \$5,000 tons; steam and horse.	
Drakesboro , Muhlenberg Ry, 408.	Green River Coal & Mining Co. James T. Pierce, prest, and mgr.; W. L. Burnam, seey.; Warren Deposit Bank, treas. Cap. stk. \$55,000. Pierce. Shaft, slope, 35,615 tons; steam. John Wright, supt.	
	James T. Pierce (lessee). Cap. \$25,000. Shaft, slope; steam. John Wright, supt.	
Earle's Muhlenberg Ry, Greenville 499.	Edward Bennett (local). Strawberry. Tunnel, so tons; hand,	
Earlington . Hopkins Ry, 408,	Heda Coal & Mining Co., Nashville, Tenn. J. F. Foard, prest.; W. F. Anderson, seey, and treas.; Ben. R. Robinson, mgr. Cap. stk. \$200,000. Heela. Shaft, 50,000 tons; steam, electricity.	
	8t, Bernard Coal Co. E. G. Sebree, prest.: John B. Atkinson, vprest, and treas.: Geo. C. Atkinson, sery, Cap. 8tk, 81,000,000. St. Bernard. Tunnels, 56,176 tons: steam: breaker, washer, 104 coke ovens, capacity 33,000 tons.	
East Bernstadt Laurel Ry, 408,		
0	Nickel Plate Coal Co. J. M. Thompson, mgr. Cap. 8tk, \$12,000. Nickel Plate. Slope, 30,000 tons; steam,	
** **	Star Coal Co., J. McNeill, prest.; R. J. Morris, seey, and treas. Star. 45,000 tons; horse. George Harrison, ngr., and supt.	
East Point Johnson Ry, Richardson 537,	Thomas Blackburn (local). Tunnel; hand.	
ry, tachardson ast,	W. J. Conley (local). Fletcher, bituminous, cannel. Tunnel; hand.	
	E. B. Perry, West Liberty, Ky. local . Cap.\$1,500. Rush Branch. Tunnel, 500 tons. Frank Fannin, supt.	
	Frank Sample (local). Tunnel; hand.	
72.1		

Falcon Hancock Hawesville Coal Co., Hawesville, Ky., W. S. Morrison, prest.; I. C. Adair, secy, and treas.; John S. Adair, (P.O.name NewChapel) mgr. Cap. stk. \$25,000. Slope, horse (developing). Flat Gap. Johnson Crislip & Co. Cap. 8800. Crislip, 300 tons; hand. Wm. Phillips, 800 t. Ry. Webbyille.

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COAL-BITUMINOUS -(CONTINUED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock.  Name and Kind of Mine, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used,  Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.	
Fordsville Ohio Ry, 403, 54;	Gains & Read. Cap. \$4,000. Open pit, 18,000 tons; horse, W. S. Gains, supt.	
	G. C. Gentry (local). Timnel; horse.	
	Johnson, Open pit; horse, J. J. & W. T. Dennis (local), Indian Creek, Tunnel; hand,	
Gay's Creek Perry	Peter Gross & Sons. Cap. \$10,000. Open pit; hand,	
ку, клениюни зов,	Wiley Mullens (local). Tunnel; hand.	
Rý, Morchead 499, Gray Knox Ry, 408,	North Jellico Mining Co. C.S. Neile, mgr. Cap. stk. \$75,000. North Jellico. Tunnel, 560 tons; horse, steam:	
Grayson Carrer	breaker. Hord Bros. Tunnel, 150 tons; hand.	
Ry, 242, 132.	James Osenton. Cap. \$50,000. Osenton. Tunnel; horse, hand. Peter Prater, mgr. and supt.	
Greenville Muhlenberg	Frank Powers, Tunnel; hand, N. M. Mann (local). Tunnel, 300 tons; horse,	
Ry. 490.	Joseph Tyson. Cap. \$1,000. Gordon. Tunnel; hand.	
Greenwood Pulaski Ry, 612.	Greenwood Railway & Coal Co., Cincinnati, Ohio, 49 W. Third St. Thomas D. Lovett, chairman; Robert McF. Smith, seey.; Louis Króhn, treas.; S. A. Adams, mgr. Cap. stk. \$50,000. Greenwood, Beaver, Tunnel.	
Groverdale Magoffin Ry, Rothwell 363,	J. W. Bock & Co. (local). Cap. \$10,000. Groverdale. Tunnel, 100 tons; band; breaker, G. Williams, supt.	
	E. H. Whitaker and others. Cap. stk. \$20,000. Open pit; hand. Calvin Howard, supt.	
	P. E. Howard (local). Cap. \$1,500. Howard. Tunnel, 4,500 tons; horse,	
Hanson Hopkins Ry, 408.	Amos Hook, Jones, Slope, 8,000 tons; hand.	
Hawesville, Hancock Ry, 407.	Hawesville Coal Co. W. S. Morrison, prest.; 1ke C. Adair, secy, and treas.; John S. Adair, mgr. Cap. 81k, \$25,000. Falcon. Slope; horse. James Gillians, supt.	
Hazard Perry	P. Kelly (local), Slope; horse, John C. Spencer, Chavies, Ky. Grapevine, Shaft, tunnel.	
Ry, Jackson 362. Hazet Green Wolfe	S. W. Cecil (local). Cap. \$5,000. Tunnel, 500 tons; hand.	
Ry, Torrent 362.	Ely & Son (local). Open pit, 45 tons; hand. James F. Ely, supt.	
** .	Fletcher McGuire (local). Tunnel, 375 tons; hand.	
	Jeremiah Profitt (local). Tunnel, 100 tons; hand.	
	G. B. Swango (local). Tunnel, 100 tons; hand. H. P. Arnett. Cap. \$10,000. Hendricks. Tunnel, 6,000 tons; water.	
	Samuel Madden (local). Open; hand.	
	Robert A. Miller. Horse Branch. Tunnel; hand.	
	D. Hunt. Cap. \$10,000. Muddy River. Slope (developing).	
	John Asher (local), Cap. \$2,000. Asher. Open pit, 2,000 tons; hand,	
Inez., Martin Ry, Peach Orchard 537,	G. W. Comer (local). Kirk. Open pit, 500 tons; hand.	
Island McLean Ry, 408.	John Dingus, Eden, Ky. (local). Kingüsher. Tunnel, 3,200 tons; hand. M. C. Dingus, supt. Sid., Gardner (local). Drake. Open pit, 8,000 tons; hand.	
	Alva Karnes (local). Drift, open pit; horse. Walter Davis, supt.  George Wood (local). Tunnel, 400 tons: band.	
	James Wood (local). Tunnet, 400 tons: nand.  James Wood (local). Open pit, 120 tons; hand.	
Jackson Breathift Ry, El Katawa 362,	Kentucky Union Land Co., Clay City, Ky. E. T. Halsey, receiver; Charles Hendrie, mgr. and supt. Cap. 8tk, \$15,000. El Katawa. Tunnel, 12,000 tons; hand.	
Jellieo, Whitley P. O. and Ry. Jellieo, Tenn., 240, 408.	East Tennessee Coal Co. Knoxyille, Tenn., 56 Union st. E. J. Davis, prest, and gen. mgr.; T. C. Rich mond, seey, and treas. Cap. stk. \$150,000. Dowlais. Tunnel, 84,767 tons; steam. Philip Francis. supt.	

Jellico & Bird-Eye Coal Co., Louisville, Ky., 434 W. Main st. E. T. Haisey, prest.; Wm. L. Halsey, secy.; Columbia Finance & Trust Co., treas. Cap. stk., 8650,000. Tunnel; steam (developing).

Paradise . Ry, 533.

### COAL-BITUMINOUS-CONTINUED

COAL-BIT UMINOUS-COMMEN		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,001 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Overs, and Name of Mine Superintendent.	
TOWN AND COUNTY.		
Jone burg Harlan Ry, Wasioto 408.	John L. Jones (local). Cap. 83,000. Hand, 14 tons.	
Kensee Whitley Ry, Jellico, Tenn., 408.	Main Jellico Mount Coal Co. Attila Cox, prest.; H. V. Sanders, secy, and treas.; Hywel Davies, mgr. Cap, stk. §500,000. Tunnel, 85,000 tons.	
Kilgore , Carter Ry, 499,	Norton Iron Works, Ashland, Ky. C. H. Green, prest, and mgr., E. E. Seaton, seey.; John Russell, treas, Cap. stk. \$1,000,000, Star Furnace, Tunnel, 50,000 tons, horse; breaker, James W. Hughes, supt.	
Kingston Madison Ry, Harris 360.	Mrs. K. J. Moran (local). Bighill. Open pit, 320 tons; hand.	
	George W. Hamblin (local). Cap. \$1,000. Tunnel, slope, open pit, 20 tons. hand	
	J. D. Rush & Co. J. D. Bush, prest. Henry Hatcher, seey., Archibald Gibson, treas. Cap. 8tk, \$10,000, Tunnel, 200 (tors) hand.	
	Win, T. King, lessee   local   Pate   Slope, 750 tons; horse.	
	Lity Mining & Manufacturing Co J. Prvin Blanton, prest., W. Addams, seey., Hywel Davies, treas, and mgr Cap. stk, \$100,000. Lily. Tunnel, 50,000 tons, steam, horse; washer.	
Lavermore, McLean Ry, 549.	Wm. Herron. Cap. \$10,000. Hicks. Open pit, 200 tons, horse.	
	Wm. Kiser & Co. Kiser. Open pit, hand.	
	McHenry Coal Co. W. Y. Duncan, prest, and mgr.; C. W. Taylor, seey., G. T. McHenry, treas. Cap. 8tk, \$145,000. McHenry, Slope, 12,000 (ons; hand. Robert Duncan, supt.	
	Williams Coal Co., J. 8, Williams, prest., K. V. Williams, seey.; J. W. Cooper, treas.; Samuel James, mgr. and supt. Cap. stk. \$40,000. Williams. Slope, 18,000 tons. steam.	
McKee "Jackson Ry, Harris 360.	Joseph Harrison and others (local), Cap. \$5,000. Bill Branch. 2,000 tons, hand.	
	John Jackson clocal). Island. Slope, 300 tons, horse,	
	Reinecke Coal Co. Uonrad Reinecke, prest. Inkerman Balley, seey., treas, and mgr. Cap. stk. 8100,000, Reinecke. Shaft, 155,000 fons. steam, air. Louis Feger, supt.	
Manchester Clay Ry, London 408,	T. T. Garrard (local). Open pit, 280 tons, hand.	
	Wm. II, Dovey. Dovey's Kentucky. Shaft, 25,000 tons, steam 7 coke ovens. Wm. Wadeley, supt.	
Monticello Wayne Ry, Mill Springs 201.	T. J. Alexander (local). Smoking Ridge. Tannel, 400 tons; hand.	
	Watkins & Dunnagan. Cap. \$10,000. Watkins, 2,000 tons, steam.	
Morgantown Butler Ry, 533, 298a,	Aberdeen Coal & Mining Co. E. P. Aspley, prest., J. D. Render, seey and treas , James F. Phillips, mgr. and supt. Cap. stk. \$25,000. Aberdeen, Tunnel, 12,871 tons.	
**	J. M. Forgy (local). Hope, Open pit, hand.	
Morton's Gap Hopkins	O. F. Wade closel). Tunnel; hand.  St. Bornard Cod Co., Earlington Kr., E. C. Salaron proct. Laby P. Athinson v. proct. and from Cod.	
	8t. Bernard Coal Co. Earlington, Ky. E. G. Sebree, prest, John B. Atkinson, vprest, and trens., Geo. C. Atkinson, seey. Cap. Stk. \$1,000,000. Dlamond, Tunnel, (10,000 tons), steam; breaker, washer.	
Mountain Vsh , Whitley Ry, 2,	Cap. stk, \$100,000.   Jellico.   Slope; horse (developing).	
Mt. Vernon - Rock Castle Ry, 408.	E. W. & E. D. Hansel (local). Tunnel, 500 tons, hand,	
Ry. 408.	Mud River Coal, Coke & Iron Co. Asaac Litten, prest.: John C. Gordon, vprest.: W. G. 8. Anderson, seey., treas, and supt. Cap. stk. \$200,000. Mud River. Slope, 100,000 tons; steam.	
Music .Carter Ry, 132,	Lexington & Carter County Mining Co., Lexington, Ky., 40 Short st. R. H. Courtney, prest, and treas; J. T. Vance, seeg.; F. S. Cully, nigr, and supt. Cap. stk, \$500,000. Music. Tunnel, 46,526 tons; steam, horse, leand.	
Ry. 408,	T. P. Barnes (local). Cap. \$3,000. Drift, 200 tons; horse.	
New Chapel	W. C. Custer. Cap. \$100. Brinkley. Slope, 500 tons; hand. T. D. Lewis (local). Tunnel, 30 tons; hand.	
	Jarvis Branch Coal Mining Co. John Jarvis, prest, and supt.; D. Jarvis, seey.; Robert Jarvis, treas.; James S. Jarvis, mgr. Cap. \$4,000. Jarvis Branch. Tunnel, 12,000 tons; hand.	
	R. S. Patrick. Cap, \$4,000. Shaft, 2,400 lons; horse.	
	E. W. Fairchild, Cap. \$25,000. Lick Spring, Tunnel, hand. Daniel Hitchcock, supt.	
	G. W. George (local). Cap. \$500. Tunnel, hand. E. F. & H. S. Howes. Cap. \$10,000. Howes. Tunnel, 4,000 tons; hand. Wm. Castle, supt.	

Muhlenberg Gen. D. C. Buell. Cap. \$60,000. Airdrie. Tunnel, shaft, 30,000 tons; horse. Thomas Hull, supt.

# COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPPRINCENDERS.
TOWN AND COUNTY.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Patesville	Samuel Flowers (local). Tunnel; hand.
	Great Western Mining & Manufacturing Co., Ashiand, Ky. B. D. Harris, prest.; John Carlisle, secy, and treas.; W. S. Howell, gen, mgr. Cap. stk. \$300,000. Elizabeth, Annie. Slope, 125,000 tons; steam, compressed air. Conrad Frank, supf.
PikevillePike Ry, 121.	Fulton Booze. Ratliff Creek. Tunnel; hand. Milton McGlofan, supt.
	Mitchell Coal & Mining Co. William Mitchell, prest.; W. H. Strossman, seey, and treas.; W. Welsh, gen. mgr, and supt. Cap. stk. \$50,000. Mitchell. Tunnel.
	Pine Mountain Iron Co. Cap. stk. \$100,000. Strait Creek, West Pineville. Tunnel, 1,500 tons; steam; breaker, 200 coke ovens.
	Southern Land Improvement Co. J. C. Howard, prest.; Jesse B. Butin, secy.; J. G. Taylor, treas.; J. D. Blake, mgr. Cap. stk, 35,000,000. Truxton. Open pit, 75,000 tons; horse, electricity; 100 coke ovens, capacity 35,000 ton. D. K. Koger, supt.
PittsburgLaurel Ry, 408.	Laurel Coal Co., Geo, Givens, prest. and treas.; J. W. Bastin, secy, and supt. Cap. stk. \$80,000. Laurel Slope. 400,000 tons; horse.
*********************************	Pitman Coal Co. W. A. Pugh, prest.; J. M. Balley, secy.; S. V. Rowland, treas, and mgr. Cap. stk. \$100,000. Pitman. Slope. Wm, M. Neil, supt.
	W. A. Pugh. Cap. \$6,000. "Etna. Open pit, 12,000 tons; horse. I. H. Collins, supt.
	Union Coal Co. Thompson Jeffrey, prest., mgr. and supt.; John Jeffrey, secy. and treas. Cap. stk. \$5,000. Union. Tunnel, 22,300 tons; horse,
*	Victoria Coal Co., W. M. Baxter, prest.; J. E. Baxter, secy, and mgr.; J. J. Hughes, treas. Cap. \$12,000, Victoria. Slope, 32,000 tons; horse, J. E. Carnell, supt.
Pleasant View Whitley Ry, 408.	Central Jellico Coal Co. J. P. Mahan, prest.; J. W. Siler, seey, and treas.; John Phillips, mgr. and supt. Cap. stk. \$24,000. Central Jellico. Open pit, 100,000 tons; horse,
PrestonsburgFloyd Ry. Richardson 537.	Mary L. Hatcher (local). Rock Port. Tunnet, 60 tons; hand.
**	David Sammons (local). Open pit; hand.
Providence Webster	J. H. Spradlin & Co. (local). Cap. \$25,000. Big Sandy. Hand. Providence Coal Co. E. B. Hayden, prest.; W. L. Barnes, secy., treas., mgr. and supt. Cap. stk. \$100,000.
Ry, 408.	James M. Collins & Co. James M. Collins, prest.; W. H. Nickels, secy., treas, and mgr. Cap. \$20,000.
Ry. Wasioto 408. Rothwell	(Developing.) W. A. Allen (local). Hathaway. Tunnel, 400 tons; hand. Louis Beer, supt.
Ry, 363. Rumsey McLean Ry, 298a.	J. E. Arnold (local). Slope, drift; hand.
Ry, 238a.  Rush	Ashland Coal & Iron Railway Co., Ashland, Ky. Douglas Putnam jr., prest, and gen, nigr.; Robert Peebles, seey, and treas; E. C. Means, supt. Cap. 8tk, \$1,500,000, Rush, Kilgore, Tunnel, 200,000 tons; horse, Jacob Scingh, supt.
Sacramento McLain Ry. South Carrolton 408.	Andrew Bros., lessees (local). Sacramento. Shaft; steam.
St. Charles Hopkins Rv.499.	St. Bernard Coal Co., Earlington, Ky. E. G. Sebree, prest.; John B. Alkinson, vprest. and treas.; Geo. C. Alkinson, sccy. Cap. stk. \$1,000,000, St. Charles. Tunnel, 110,000 tons; steam; breaker, washer.
Salyersville Magoffin Ry. Richardson 537.	Grafs Allen. Cap. \$10,000. Open pit, 150 tons; hand; 12 coke ovens, 1,000 tons.
**	Isaac Bock and others (local), Cap. \$10,000, Tunnel, 6,000 tons; hand; breaker.
" "	Add, Marshall. Tunnel, water.  Jasper Owens. Cap. \$5,000. Oakley Creek. Open pit; hand.
Sandy Hook . Elliott Ry, Morehead 499,	John Watson (local). Open, 30 tons; hand. Peter Smith, supt.
Sebree Webster	Henry Rowland (local). Tunnel, 500 tons; horse.
See	Moses Morton (local). Glady. Open pit; hand,
	Russel Bates (local). Cap. \$200. Bates. Slope; horse,
46	Jerry Vancleve (local). Cap. \$300. Boder. Slope, 200 ton8; horse. R. W. Driskill (local). Cap. \$200. Tunnel, 500 ton8; hand.
Ry, Elkton 408,	
Ry. Miflwood 499,	M, Willis (local). Open pit, 400 tons; hand.
Ry. Richardson 537.	John Henry Caudill (local). Caudill. Tunnels, 160 tons; hand.
Rv. 298a.	J. W. Casteel (local). Cap. \$350. Open pit, 800 tons; horse.
Somerset Pulaski Ry, 407.	C. C. Whiteaker, Line Creek, Ky. Whiteaker, Tunnel; horse; breaker, washer, 11 coke ovens. George Givens, supt.

#### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

AND COUNTY.

8, Carrollton Muhlenburg George W. Doss (local). Lewisburg. Open pit, 4,000 tons; horse,

Spottsville.....Henderson T. Shinn & Bros. T. Shinn, prest, and mgr.; R. H. Shinn, seey, and treas. Cap. stk. \$40,000. Green Ry. 407. River. Shaft, 64,000 tons; steam. Evan Reese, supt. Union J. W. Hall (local), Slope, 750 tons; hand,

Spring Grove ... Unic Ry, Morganifeld 329,

phens Ry, Willard 242.

Stephens Steubenville Ry, 201.

Wayne Stenbenville Coal Co. M. H. Bohon, prest.; Mrs. W. P. Jones, secy.; J. H. Duncan, treas. Cap. sfk, \$10,000. Stenbenville. Open pit; hand. John E. Bohon, mgr. and supt.

Sturgls

rgis . . . . . . Union Barnaby & Son, Slope, 700 tons, hand, U. Barnaby Jr., supt. Ry, 499, 533, 536.

Cumberland Coal Co., Nashville, Tenn. W. W. Smith prest.: Isaac Reese, secy, and treas. Cap. stk. \$150,000, Wardlaw, Slope, 150,000 tons; steam, J. C. Wardlaw, supt.

Sturgis Coal & Coke Co., Louisville, Ky., cor, Fourth and Main sts. F. C. Mills, prest.; Geo. H. McCartney, seey, and mgr.; Moses Schwartz, freas. Cap. stk, \$300,000. Sturgis. Shaft, 150,000 fons; steam. Herbert H. Richards, supt.

Treadway Ry. London 408

..Clay Kelth & Co. Cap. \$7,000. High Nob. Tunnel, 2,000 tons, electricity; 700 coke ovens. J. B. Howard, supt. .Knott James M. Grisby (local). Open plt, hand.

Ry, Jackson 362. Walnut Grove.

Pulaski Budie Caskey, Cap. \$2,000. Lykins, Open pit, 200 tons; hand.

Ry, Eubank 612.

Ward City Johnson Preston & Price (local), Tunnel, 500 tons; hand, Henry Price, supt. Ry, Richardson 55.

Warfleid Ry. Peach Orchard 5

Martin Tug River Salt & Coal Co. (local). Warfield. Open pit, horse. John Meade, supt.

Ry. 242.

Webbyille . . . Lawrence J. C. Webb (local). Tunnel; hand.

West Liberty Morgan John L. Henry (local). Open pit; hand, Rv. Moorehead 499.

West Louisville, Dayless, T. L. Harl, Cap. \$150. Buck Washington. Shaft, 320 tons; horse,

Ry. Owensboro 407,408

J. P. O'Bryan (local). Cap. \$1,000. Shaft, so tons, horse. J. H. Stallings, supt

Wood Bros, & Elder, Cap, \$6,000. Shaft, 2,000 fons; steam, Crittenden, J. H. Tate (local). Cap. \$1,000. Open pit, 500 tons, steam.

Ry. 534. Whalen

alen (Dayless H. C. Brown (local). Slope, hand Ry, Shorts 549.

Whitesburg Ry. Morton, Va., 408, 523,

Letcher H. B. Branson (local), Cap. \$2,500. Open pit, 300 tons; hand,

Willard

Weston

.Carter Bent's Coal Works (local). Tunnel, hand.

Eastern Kentucky Railway Co., Greenup, Ky. H. W. Bates, gen. mgr. | Lost Creek. | Tunnel. 24,000 tons. George Gibbs, supt.

Jacob Horton (local). Tunnel; horse.

. Whitley G. W. Sproule (local). Open pit, 500 tons; hand. Williamsburg

A. Wilder local). Cap. \$1,000. Slope, open pit.

Woodbine Ry. 408, Whitley S. B. Hart (local). Open pit; hand,

Yelvington. Rv. 407.

Dayless Henry Creason, Cap. \$300, Slope, 4,800 tons, hand,

#### COAL CANNEL

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.

Town AND

Back Bone. . . . F Ry. Willard 242, Elliott R. B. Leedy (local). Tunnel; hand.

Booneville

Owsley H. B. Cawood Jocab. Tunnel, 300 tons; hand,

Daniel Reynolds & Simeon Reynolds clocal. Cap. 81,000. Reynolds. Tunnel, 100 tons; hand. G. B. Reynolds. Open pit, 5,000 tons; hand.

# COAL-CANNEL-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Rind of Mine, Annial Outfut in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Core Oyens, and Name of Mine Superintendent.
TOWN AND COUNTY.	COAD DADABLES, TRANSLES, CORN OTTING, AND MARK OF MANY SOFTEMATERIDES.
Ry, 499.	D. A. Williams. Open pit; hand,
	Breckenridge Co., Ltd., Louisville, Ky., Room 62 Kentneky National Bank Bldg. Wm. Hopper, mgr. Cap. stk. \$2,500,000. Breckenridge. Tunnel, 16,000 tons; horse. James Heron, supt.
Conkling Owsley Ry. St. Helens 362.	J. P. Jett and others. J. P. Jett, prest, and supt.; J. A. Wilson, seey.; Wm. Blake, treas.; L. Day, mgr. Cap. stk. \$40,000; ind. cap. \$2,000. Elwood Creek. Open; hand.
Ry, 499,	J. P. Alexander (local). Tunnel; hand.
East Point Johnson Ry. Richardson 537.	W. L. Smith, Paintsvile, Ky. Cap. \$50,000. Smith. Tunnel, 100,000 tons; hand. D. J. Smith, supt.
ElkatawaBreathitt Ry, 362.	Charles Henry (local). Open pit; hand,
Ry. Rothwell 363,	Wm. M. Hensley (local). Open pit; hand,
Flat Rock Pulaski Ry. 612.	Barren Fork Mining & Coal Co., Lexington, Ky., 47 N. Mill st. J. T. Slade, prest.; W. Bright, seey, and treas. Cap. stk. \$130,000. Barren Fork. Drift, 74,900 tons; air, hand. J. H. Holland, supt.
Hager Magoffin Ry, Torrent 362.	Reed & Stacy (local). Cap. \$8,000. Hand. Lewis Reed, supt.
Helton . Leslie Ry. Pineville 408.	Peter Wilson (local). Cap. \$1,000. Beech Group. Open pit; hand; breaker.
Ry, Prestonburg 537.	Wm, Henson and others docal). Cap. \$5,000. Open pit; hand, J. B. Treasure, supt.
Manchester Clay Ry, London 408.	Thomas J. Brown (local). Horse Creek, Tunnel; hand,
Mt. Carbon Johnson (P. O. Myrtle) Ry, Richardson 537.	Win, Richardson & Co., Paintsville, Ky. (local). White House, Sandy River. Tunnel; horse. E. S. Thomas, supt.
****	Sandy River Cannel Coal Co., Chillicothe, Ohio. F. A. Stacey, prest.; G. O. Richardson, secy, and ugr.; J. P. Dieter, treas. Cap. 8tk. \$20,000. Sandy River. Tunnel, 7,667 tons; hand. G. R. Bickford, supt.
Mt. Savage Carter Ry, 132.	Lexington & Carter County Mining Co., Lexington, Ky., 40 Short st. R. H. Courtney, prest, and treas.; J. T. Vance, seey.; F. S. Cully, mgr, and, supt. Cap. stk, \$300,000. Tinson, Tunnel, 6200 tons; steam, horse, hand.
Myrtle Johnson Ry, 132, 537.	Big Sandy Cannel Co. — Deater, prest.; G. C. Richardson, secy.; — Stacy, treas. Cap. stk. \$50,000. Big Sandy. Open pit; horse, George Bigbart, mgr. and supt.
44 11 16	White House Cannel Coal Co., Ashland, Ky. J. H. Northup, prest.; George C. Galan, secy. Cap. stk. \$50,000. White House. Tunnel, 300,000 tons; hand, G. H. Thomas, supt.
Paintsville Johnson Ry, 537, 746,	N. T. Brumett (local). Cap. \$3,000. Tunnel, slope, 75 tons; hand.
* *	John C. Cellayo Cannel Coal Co. Henry Ort, prest.; John C. Cellayo, seey. E. H. Martin, treas. Cap. stk. \$20,000. Paintsville. Tunnel, 1,000 tons.
	James Dills (local). Cap, \$3,000. Muddy Branch. Tunnel, 600 tons; hand.
**	J. C. C. Mayo & Co. Cap. \$10,000. Fletcher. Open pit, 500 tons; hand. A. S. Leslie, supt.
"	D. Pelphrey & Son. Barnett's Creek, Tunnel; hand; breaker, J. V. Adams, supt.
Pikeville Pike Ry, 121.	treas.; Wm, T, Love, gen, mgr, Cap. stk. \$600,000, Monarch, Shaft.
Prestonsburg Floyd Ry, Richardson 537.	T. Jefferson Patton (local). Cap. \$300. Prestonsburg. Open, 300 tons; hand, horse,
Rockhouse Letcher Ry, Wasioto 408,	Peter Adkins (local). Cap. \$2,000. Tunnel (developing).
Salyersville . Magoffin Ry, Richardson 537.	
**	Buck & Co. Cap. \$15,000. Open pit, 50,000 tons; steam; washer, 12 coke ovens. R. W. Row, supt.
**	Samuel Carpenter. Tunnel, 2,200 tons; hand.
11	Benjamin Hammond, Coal Branch, Tunnel, 600 tons,
Sandy Hook Elliott Ry. Morehead 499.	
VietoriaHaneock Ry. Cloverport 76, 407.	Breekenridge Coal Co., Ltd., Cloverport, Ky. William Hooper, mgr.; O. Gregory, secy. Cap. stk. \$75,000. Breekenridge. Open pit, 24,000 tons; horse, steam. James Heron, supt.
West LibertyMorgan Ry. Morehead, 499.	J. H. Cole (local). Rush Branch, Calvin. Tunnel: hand.
	E. B. Perry (local). Elk Fork. Open pit, 300 tons; hand.
Whitesburg . Webster (P. O. Beech Grove,	Mary Hardin (local).   Shaft; hand.

#### FIRE CLAY

Location of Mine or Bane, Railways, Water Routes, and Shipping Point. AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT,

Glenn (nota P.O.). Lewis Kentucky Fire Brick Co., Portsmouth, Ohio. George Davis, prest.; L. C. Turley, treas. Cap. stk. pd. up Ry, 151. \$100,000. Tunnel. Open pit, 3,000 tons; hand,

#### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY On INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, OF COMPAN OF THE ACT THE ACT TO SEE THE ACT TO SEE

AND

Grand Rivers Livingston
Ry, 132, 201, 499.
Grand Rivers Mining Co., Boston, Mass., 64 Federal St. Aretas Blood, prest., Fred Joy, seeg.; A. H.
Breed, treax, Thomas W. Lawson, gen. ngr. Cap., xlk, \$1500,000. Brown from orc. Open cut and pitr
hand, horse; Plurinesec, Joseph M. Searle, sup.

#### SALT

LOCATION OF MINE
OR WELL,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, ETO., AND NAME OF MINE SUPERINTENDENT.

Brandenburg Rv. 146.

.Meade Meade County Salt Works, Alonzo Moremen, propr. Fine, 7,500 brls; steam,

#### STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY.

Big Clifty Rv. 499. "Grayson Ohio Bituminous Rock Co., Cincinnati, O., 29 W. Fourth st. H. D. Emerson, prest.; C. L. McCrea, seey, Cap. 84k. \$600,000. Bituminous rock. Open pit, steam. rfield "Breckenridge Breckenridge Asphalt Co., Louisville, Ky., Room to Norton Bidg Marshall Morris, prest, and mgr.: B.
Ry, 407. M. Rivers, seey, and treas. Cap. stk. \$100,000. Bituminous sandstone. Open pd., 10,000 tons. Garfield

.. Warren F. R. Caden & Co., Eyansville, Ind., 411-425 E. Ohlo st. Offitic limestone. Steam: mill.

Hadley Ry, 208a.

Irvington Breckenridge Morris-Bennett Stone Co., Louisville, Ky., Room 46 Norton Bldg. Marshall Morris, mgr. Limestone Ry, 407.
20,000 tons, hand; mill, Ed. Bennett, supt.

Langford

Ry. 360.

Rock Castle, M. N. Langford, Bluestone, Steam,

Morghead Ry. Rockville 499.

Rowan Kentucky Blue Stone Co. George M. Plerce, prest., F. S. Martin, secy, and treas., John F. Knapp, mgr.

Cap. stk \$125,000. Free limestone, Open pit, 20,000 tons; steam; mill, Winslow S. Martin, supt.

Muellersville, Rock Castle Buena Vista Free Stone Works, Cineinnati, Ohio, 468 W. Front st., P. O. Rox 502. Cap. 830,000. Rock P. O. and Ry. Lang-ford 303. Castle, free limestone, 45,000 tons, steam. Wilbert Newhall, supt.

S.Carrollton, Muhlenburg John Oman, Nashville, Tenn., 939 S. High st. Cap, \$50,000. Green River, sandslone. Open pit, 60,000 Ry, 549, 298a. tons; steam; stone and marble mills. D. S. Oman, supt.

SEE ALSO SUPPLEMENTARY LIST

# LOUISIANA

#### SALT

LOCATION OF MINE OR WELL. RAILWAYS, WATER ROTTES AND SHIPPING POINT. Town COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT

New Iberia.

Beria New Iberia Salt Co., New York City, John L. Welsh, prest.; J. Kock, secy.; J. E. Nash, treas.; J. L. McCalla, mgr. and supt. Cap. stk. \$300,000. Avery. Shafts, 50,000 tons; steam.

# MAINE

#### MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. Town AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Paris..... Rv. 290.

Oxford Mount Mica Co., Bangor, Me. A. C. Hamlin, prest, and mgr.; H. M. Fairbanks, secy.; J. S. Jenness, treas. Mount Mica. Open pit; hand,

#### SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Quarry, Kind of Slate, Kind of Quarry, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Mills, Etc., and Name of Quarby Superintendent.

Brownville. Piscataquis Merrill Brownville Slate Co., T. W. Merrill, prest.; S. P. Johnson, seey, and treas.; Arthur Merrill, ingr. and supt. Cap. stk. \$240,600. Merrill, Brownville. Open pit, 5,000 tons; steam. Monson .......Piscataquis Ry, 444. Monson Lakeside Slate Co., Portland, Me., 185 Middle st. M. P. Frank, prest,; P. J. Larrabee, seey, and treas.; M. T. Phillips, mgr, and supt. Cap. stk, \$50,000. Monson Lakeside. Open pit; steam.

Shirley Piscataquis
P. O. and Ry. Blanchard 46.

Deslauriers Slate Co., Blanchard, Me. A. Deslauriers, prest.; H. M. Heath, secy.; F. W. Eaton, treas., mgr, and supt. Cap. stk. \$150,000. Moosehead. Open pit, 1,000 tons; steam.

### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEEULNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

AddlsonPointWashington Pleasant River Granite Co. of Maine, Philadelphia, Pa., 435 Drevel Bidg. J. Thompson Baker, prest; Robert F. Willson, seey;; Philip P. Baker, treas; John L. Datot, mgr, and supt. Cap. stk. \$250,000. Pleasant River, granite. Open pht. 250 tons; steam; mill. . Somerset T. N. Joaquin, Joaquin, granite, Hand.

Athens . . . . . Somer Ry, Skowhegan 414.

Auburn.... Androscoggin Mount Apatite Mineral Co. (local), 68 Main st. Henry W. Oakes, prest.; A. E. Verrill, treas. Cap. stk. Ry, 200, 444. \$20,000. Mount Apatite, tournalines and aquamarines. Open pit; hand. H. C. Royal, supt.

gusta ..... Kennebeck Ry. 414, F. E. Garland. Granite. Open pit; horse and hand. Augusta

deford ....... York Ry, West Biddeford 71. Biddeford

Gordon & Michie. Cap. \$3,000. Granite. Open pit, 3,000 tons; hand.

Blue Hill... ... Hancock W. P. Bisset, Orland, granife, 3,200 tons; horse,

Capt. J. T. Miller. Granite. Open pit: hand.

White Granite Co., New York City, 547 W. Fourteenth st. N. G. White, prest.; J. E. Dutton, secy, and treas.; A. Le Poidevin, v.-prest, and mgr. Cap. stk, \$12,000. Blue Hill, granite. Steam.

..Cumberland Allen Bros. Granite, Slope; hand; mill. Bridgton Ry, 77

Bristol .... Lincoln South Bristol Granife Quarry. South Bristol, granife. 3,000 tons; horse, mill. E. P. Gamag, supt. (P. O. South Bristol)

Ry. 31.

Washington Douglas Bros., St. Stephen, New Brunswick. Granite, 4,000 tons; hand; mills. W. S. A. Donglas, supt.

Calais Ry, 31, 96, 325.

Maine Red Granite Co., Main st. E. B. Harvey, prest.; O. S. Tarbox, secy, and mgr.; C. H. Newton, treas, Cap. stk, \$30,000. Beaver Lake, granite. Open pit, 1,400 tons; water, steam; mills.

Canaan . . Somers Ry, Skowhegan 414.

Somerset Samuel L. Fowler, Cap. \$3,000. Fowler, granife. Open pit, 400 tons; hand

Crowleys Junction Androscoggin (P. O. Lewiston) Ry. 290, 440,

J. P. & James Murphy, Lewiston, Me., 12 Bates st. Cap. stk, \$16,000; indv. cap. \$8,000. Granite. Open pit, 21,000 tons; steam; mills. J. P. Murphy, supt.

P. G. Merrill. Granite. 10,000 tons; horse.

Sullivan Green & Co. North Side. Open pit, 2,000 tons; hand; mill. Sullivan Green, supt.

11. M. Thayer, Green's Landing, Me. Cap. \$5,000. Granite. Open; hand.

Thos, Warren & Co., Green's Landing, Me. Cap. \$2,000. Green Head and Crotch Island. Granite. 3,000 tons; steam; mill. Frank S. Warren, supt.

White Granite Co., New York City, 547 W. Fourteenth st. N. G. White, prest.; J. E. Dutton, secy, and treas.; A. Le Poidevin, v.-prest, and mgr. Cap. stk. \$12,000. Green Island, granite. Steam.

STONE, MARBLE, GRANITE AND ONYX (CONTINUED)		
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine or Quarry, Kind of Stone, Kind of Mine or Quarry, annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stone or Marrie Mills, Limerilus and Capacity, Etc., and Name of Mine Superintendent.	
East Blue Hill - Hancock Ry, 31,	Dugdale, Stansfield & Co. Cap. sfk, \$6,000. Dugdale & Stansfield, granite. Open pit, 2,000 tons; hand.	
·	T. M. Blalsdell, East Franklin, Mc. Cap. \$2,000. Granite. 1,000 tons; horse,	
	W. B. Blaisdell. Cap. \$20,000. Cape Elen, granite. Shaft and slope, 6,000 tons; horse,	
	Frank Bradbury, Cap. \$5,000. Springer Hill, granite. Open pit, 3,000 tons; horse,	
	John P. Gordon, Cap. \$30,000, Gordon's granite, 40,000 tons; horse and hand. Fred, A. Gordon, supt.	
	Joseph H. West. Taunton, granite. 2,500 tons; horse. D. E. Smith, supt.	
Gorbam .Cumberland Ry, 598,	Gardiner D. Weeks. Cap. \$2,000. Gorham, granite and marble. Mills.	
Green's Landing, Hancock Ry, 31,	James Clegg. Moose Island, granite, 2,000 tons, hand,	
Hallowell, Kennebee Ry, 31, 414.	Hallowell Central Granite Co. Cap. stk. \$75,000. Hallowell, granite. 5,000 tons; steam, Joseph Arche, supt.	
**	Hallowell Granite Works. J. F. Bodwell, prest.; L. D. Merchant, seey.; C. W. Tilden, treas.; J. P. Hunt, mgr. Cap. stk, \$200,000. Hallowell, granite. Slope and open pit, 15,000 tons; steam. B. J. Richards, supt.	
Jay., Franklin P. O. and Ry. North Jay 414.	F. L. Billings, North Jay, Me. Cap. 85,000. North Jay, granite. Open pit, 12,000 tons; steam,	
	N. W. Fish. Cap. \$1,500. Granite, paving. Horse; mill.	
Jonesport. Washington Ry, 31,	Jonesport Red Granite Co., G. F. Mansfield, prest.; H. H. Mansfield, seey.; D. J. Sawyer, treas.; W. O. Sawyer, mgr., Cap. stk. \$30,000. Jonesport, red granite. Steam.	
	E. H. Fernald, Camden, Me. Beach Grove, granite. 222 tons, steam,	
Machias Port, Washington Ry, 31,	Machlas Port Granite Co., F. L. Shaw, prest.; N. S. Tobey, seey.; A. L. Harmon, treas.; W. R. Pattangall, mgr., Cap. 84k, \$9,200. Granite. Stope; steam. Benjamin Shattnek jr., supt.	
Marshfield Washington P. O. and Ry. Machias 31,	Levi B. Gefchell, Machias, Mc. Marshfield, granite. Open pit, 300 tons, hand,	
Millbridge . Washington Ry, 31,	Millbridge Paying Co. Jowel Gary, prest; J. C. Harvey, secy, and treas.; A. F. Fishett, mgr, and supt. Cap., 3k, \$3,000. White Rock, stone. Open pit, 2,500 tons; hand; mill.	
Mount Desert Hancock Ry, 31.	Brown & Freeman, J. P. Brown, mgr. Cap. \$5,000. Brown & Freeman, granite. Slope, 10,000 tons; horse and hand. C. R. Joy, supt.	
**	John J. Carr. (ap. \$20,000. Carr's, granite paving blocks. Open pit, 4,000 tons; horse.	
**	Graves Bros. Cap. stk. \$2,000. Granite. Open plt, 2,000 tons; hand; mill.	
**	Higgins & Graham, Cap. \$3,000. Higgins & Graham, paving, 10,000 (ons; horse, J. M. Higgins, supt.	
44	Savage & Moore, Cap. \$5,000. Brown's, granite. Open pit, 1,000 tons; horse and hand. R. Moore, supt.	
	Standard Granite Co. Somes Sound, granite. 28,000 tons; steam.	
Norridgewock Somerset	Whiting & Allen, Granite, 8,000 tons, O, Allen, supt.  Needlin Cranite Co, Wistorvillo May, Way, M., Anna Area and E. E. N. Welds, and A. L. Chang, Area and A.	
Ry, 683,	Dodlin Grantfe Co., Waterville, Me. Wm. M. Ayer, prest.; E. F. Webb, secy.; I. S. Bangs, treas, and ngr. Cap. stk, \$50,000. Dodlin Hill, granife. Open pit, 15,000 tons, steam and hand.	
N. Yarmouth.Cumberland Ry,290,414.	E. D. Freeman, Yarmouth, Me. Cap. \$10,000. Freeman, granite. Open plt, 2,000 tons; Charles II, Knight, supt.	
Ry, 290,	L. L. Howard jr. Pike's Hill, granite. Open pit, hand,	
Uxford Oxford	J. E. Long, 30 Pleasant st. Cap. \$3,000. Longaere, granite. Open pit; hand, J. P. & James Murphy, Lewiston, Mc. Cap. stk. \$16,000; indv. cap. \$8,000. Granite. Open pit, 21,000	
Ry, 290, 440, Red Beach - Washington	tons; steam; mills, J. P. Murphy, supt.	
Ry, 31,	C. H. Newton, treas. Cap. stk. \$90,000. Red Beach, granite. Slope, 1,400 tons; water and steam; mills.	
	Booth Brus, A. Hurricane Isle Gramite Co., New York City, 40 Bank st. Wm. Booth, prest; J. Donaldson, seey; John Booth, trens; W.S. White, mgr, and supt. Cap. 8tk, 8250000. Hurricane Isle, granite. Open pit, 25,000 tons; steam; milkit.	
	Spruce Head Granite Co., 14 Water st. T. E. Hurley, prest, and treas.; Wm. P. Hurley, mgr. Cap. 8tk. \$15,000. Spruce Head, limestone. Slope, 3,000 tons; steam; klin, 30,000 brls.	
Saint George Knox (P. O. Rockland) Ry. 31,	Booth Bros, & Hurricane Isle Granite Co., New York City, 60 Bank st. Wm. Booth, prest,; J. Donaldson, seey; John Booth, treas, and mgr. Cap. 84k, \$250,000. Long Cove, granife. Open pit, 25,000 fons; steam; mills. W. S. White, supt.	
**	Robinson & Gilchrist, Cap. \$15,000. Eagle, granite. Open pit, 700 tons; horse,	
South Thomaston, Knox Ry, 31,	H. P. Babb, Babb's, granite. Open pit; horse,	
** **	N. C. Bassick & Sons, Cap. \$1,500. Bassick, gramte. Open pit, 5,000 tons; horse, N. C. Bassick, supt.	
S. Turner, Androscoggin Ry, Buckfield 599,	Wm. D. Barrell (local). Popdar Hill, granite. Slope; hand; mill.	
Statistical Disease de	Maria Maria Washing Maria Mari	

# STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine or Quarry, Kind of Stone, Kind of Mine or Quarry, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Stone or Marble Mills, Limerlins and Capacity, Etc., and Name of Mine Suferintendent.	
SullivanHancock (Continued.)	C. A. Stimson. Cap, \$40,000. Stimson, granite. Open pit, 500,000 tons; steam, horse; mill.	
Swans Island, Hancock Ry, 31.	Goss & Small (local). Granite. Slope, 14,000 tons; steam.	
Vinal Haven Knox Ry, 31,	Booth Bros. & Hurricane 1sle Granite Co., New York City, 60 Bank st. Wm. Booth, prest.; John Donadson, seey, and mgr.; John Booth, treas. Cap. stk. \$250,000. State Point, granite. Open pir, 25,00 tons; steam; mills. W. S. White, supt.	
44	Crown Hill Granite Works. J. P. Armbrust, mgr. Cap. \$20,000. Crown Hill, granite. Open pit, 10,00 tous; horse. Chas. Grant, supt.	
** **	Geo, Smith. Cap. \$3,000. Diamond Rock, granite. Shaft, open pit, 48,000 tons; horse; mill.	
Waldoboro Lincoln Ry, 370.	Waldoboro Granife Co. W. B. Łudwig, prest.; E. T. Hodge, secy., treas, and supt. Cap. stk. \$9,600 Waldoboro, granife. Slope, 3,000 tons; hand,	
Wayne Kennebec Ry. North Leeds 414.	J. Frank Gordon. Cap. \$3,000. Wayne, granite. Open pit, 150 tons; hand.	
West Sullivan, Hancock Ry, Frenchman's Bay 31,	Alexander Taylor & Son. Hopewell, granite. Open pit, 15,600 tons; horse, hand; mill.	
Whitefield Lincoln Ry, Gardiner 414.	E. C. Jewett. Cap. \$3,000. Whitefield, granite. Open pit, 500 tons; horse; mill.	
Yarmouthville, Cumberl'd Ry, 31, 290.	Horace G. Ross. Cap. \$3,000. Granite, 20,000 tons; horse, hand; mill.	

SEE ALSO SUPPLEMENTARY LIST

LOCATION OF MINE.

# MARYLAND

## COAL-BITUMINOUS

RAILWAYS, WATER RO AND SHIPPING POL		Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used.
Town AND Co	OUNTY.	COAL BREAKERS, WASHERS, COKE OYENS, AND NAME OF MINE SUPERINTENDENT.
Bittinger Ga Ry, W, Salisbury	arrett , Pa.,	Michael Segeer (local). Cap. \$500. Glade Run. Open pit, 300 tons; hand.
Bloomington Ga	arrett	Andrew Mullen (local). Tunnel, 400 tons; hand.
FriendsvilleG: Ry. 42.	arrett	Benjamin F. Friend. Tunnel, 400 tons; hand.
**	4.0	E. M. Friend (local). Copper Spring. Slope, 12 tons; hand.
Frostburg Alle Ry, 200.	egany	Barton & Georges Creek Valley Coal Co., Baltimore, Md., 1 and 3 Chamber of Commerce. A. Crawford Black, prest.; John Wilson, seey, and treas.; Owen Hitchins, mgr. Carlos. 300,000 tons.
**	**	Big Vein Coal Co. of West Virginia, Baltimore, Md., 218, Gay st. Jacob H. Taylor, prest.; Thos. W. Hooper, sey; Oliver F. Lantz, Ireas.; James Little, mgr., and supt. Cap., 8tk., \$900,000. Big Vein, Tinnel, 19,545 fons, steam.
** .	**	Borden Mining Co., New York City, 70 and 71 West st. L. W. Lovell, prest.; Chas, A. Greene, treas. Cap. stk, \$240,000. Bowery. Slope and drift, 337,500 tons, steam and horse. D. Armstrong, resident agt.
**		Consolidated Coal Co., Baltimore, Md., 44 South St., Charles F., Mayer, prest., T. K., Stuart, seey, and treas- Ocean Nos. 1, 2, 3, 3°4, and 5. Drifts and slopes, 1,000,000 tons; steam, air and horse, Beverly S. Ran dolph, supt.
**	11	J. B. Hansel (local), Cap. \$1,500. Open pit, 200 tons, horse.
** .	**	Union Mining Co., Baitimore, Md., Chamber of Commerce. Lloyd Lowndes, prest.; A. T. Burr, seey, and treas., John Sherblan, mgr. Cap. stk. 8500,000. Union. Slope, 210,000 tons; steam and horse. Harrison Brown, supt.
Grantsville Grants	arrett y, Pa.,	Daniel Baker (local). Caselnan. Tunnel, 100 tons; hand.
	••	Baker Mining Co., Samuel Baker, prest.; J. C. Getty, seey.; O. L. Guagley, treas.; L. Kuntz, mgr. Cap. 8tk, \$10,000. Baker. Open pit, 10,000 tons; hand.
	**	Aaron Beachey (local). Cap. \$4,000. Beachey. Tunnel, 15,000 tons; hand.
**		Lewis Hackman (local). Cap. 810,000. Hackman. Open pit, 1,200 tons; hand.
66	**	Levi Kinsinger (local). Tunnel, 100 tons; hand,
44	**	Andrew J. Stanton (local), Cap, \$500. Open pit, 1,000 tons; hand.
		W. T. Stanton, W. T. Stanton, prest., J. C. Getty, seey.; A. L. Gnagee, treas.; Peter Hedley, mgr. Cap. stk. \$10,000. Stanton. Open pit, 1,000 tons; hand.
Lonaconlug Alle Ry, 278.	egany	American Coal Co., New York City, 4 Broadway, W. De L. Walbridge, prest.; Sldney Wintringham, v.prest.; Goo. M. Bowlby, seey, and treas. (4p. stk. \$1,500,000). Jackson and Caledonia. Drift, 504,000 tops:
*	"	George's Creek Coal & Iron Co., Baltimore, Md., 29 and 31 Chamber of Commerce. Julian J. Alexander, prest, and mgr.; Chas, W. Miller, seey, and treas. Cap. stk, \$10,000. Tunnel, 40,000 tons, horse and steam. R. L. Somerville, supt.
	**	Maryland Coal Co. of Allegany County, New York City, 35 Broadway. J. E. Knapp, prest.; J. W. Love-ridge, vprest.; H. B. Nedham, trax. Cap. 8tk, 84,000,000. New Definoid, Patton, Kingsland and Appleton. 400,000 tons, gravity and steam. F. Brackett, supt.
**	••	New Central Coal Co., New York City, 1 Broadway. Henry S, Little, prest.; Malcolin Baxter, vprest. and seey.; Rufus Blodgett, treas. Cap. stk, \$5,000,000. Koontz. slope, 230,000 tons; steam. Duncan Sinclair, supt.
Oakland	arrett	Chauncey Klaumell. Open pit, 350 tons; hand.
**	**	B. F. Shaffer (local). Shields Run. Slope, 150 tons; hand.
Selbysport6 Ry, 42.	arrett	William H. Frazee (local). Open pit, 5) tons; hand,
Ry. 42,		A. J. Merrill. Cap. \$6,250. Open pit, 8,360 tons; horse.
P. O. and Ry. mont, W. Va.,	Pied-	Franklin Consolidated Coal Co., Baltlinore, Md., Chamber of Commerce Bidg. John A. Royce, prest, and ungr; W. Y. Worley. Soc. and treas. Cap. stk. 850,000. Franklin and Phoenix. Tunnel, 200,000 tons; horse. P. E. Haldeman, supt.
FIRE CLAY		

LOCATION OF MINE OR BANE,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.
TOWN AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME AND KIND OF MINE OR BANK, ANNOAL OUTFUT IN TONS OF 2,000 FOCUORS, KIND OF POWER
USED, ETC., AND NAME OF SUPERINFADER.

#### GOLD AND SILVER

RAILWAY	TION OF	R ROUTES
Town	AND	COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Rockville.....Montgomery | Columbian Mining & Milling Co., Reading, Vt. L. E. Read, prest, and mgr.; H. S. Pearson, secy, and treas, Cap. stk. \$500,000, Columbian, gold. Shaft and open pit; free; 10 stamps (developing).

#### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Beltsville Prince George's Ry, 42.	Charles E. Coffin, Muirkirk Furnace, Md. Wm. Shea, mgr. Cap. \$7,500. Twampudle, hematite. Open pit, 1,200 tons; free; horse; furnace.
Catoctin FurnaceFred'k Ry, 42,	Catoetin Mount Iron Co. Thomas Gorsuch, prest., mgr. and supt.; Harry P. Gorsuch, seey.; Geo. Houck, treas. Iron ore. Open pit, 9,000 tons; steam and horse.
Hanoverville Howard Ry, 42,	G. W. Hobbs, Fossil ore. Open pit, 1,200 tons; hand.
-4	J. White. Open pit, iron; hand,
Muirkirk,Prince George Ry, 42,	Fred Duvall, Cap. \$3,000. Iron ore, Open pit, 2,500 tons; horse; furnace,

#### MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER KOUTES AND SHIPFING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONOOF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Hanoverville Howard Ry, 42,	Wilson & Bro. Paint ore, Open pit, 2,500 tons; horse,

#### SILICA

Location of Mine or Bank, Railways, Water Routes, and Shipping Point.	NAMF OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ASNOAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF FOWER USED, ETC., AND NAME OF SUPERINTEEDERY.
TOWN AND COUNTY.	
Dunkirk Calvert Ry, Upper Mariboro 44.	New York Silicite Co., New York City, 40 and 42 Broadway. J. E. Franks, prest.; W. A. Weed, seey., treas, and mgr. Cap. stk, \$100,000. Infusorial earth. Open pit, 3,000 tons; steam.

Town and County.	Used, Etc., and Name of Superintendent.
Dunkirk Calvert Ry, Upper Marlboro 44.	New York Silicite Co., New York City, 40 and 42 Broadway, J. E. Franks, prest.; W. A. Weed, secy., treas, and mgr. Cap. stk, \$100,000. Infusorial earth. Open pit, 3,000 tons; steam.
ST	ONE, MARBLE, GRANITE AND ONYX
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mins or Quanty, Kind of Stone, Kind of Mins or Quanty, Annual Output in Tons of 2,000 Founds, Kind of Fower Used, Stone of Marble Mills, Limerlins and Capacity, Etc., and Name of Mins Superintendent.
Baltimore, Baltimore Ry, 17, 41, 42, 44, 528, 577, 804,	Henry Fox (local), 25 Jackson st. Cap, \$10,000. Olive Mills, block. Open pit, 6,000 tons; horse,
Ry. 44.	John G. Schwind, 2819 Raymer av. Cap. \$35,000. Calverton, gneiss, 40,000 tons; steam. John Boyling, supt.
\$4	A. A. Wight, 7 N. Calvert st. Cap. \$5,000. Stony Run, granite. Open pit, 11,000 tons; hand, Geo, Blucher, supt.
Cambria Harttord (P. O. Delta, Pa.) Ry, Cambria Station 41,	W. A. McLaughlin. Cambria, marble. Open pit; steam.
Capital View, Montgomery (P. O. Alexandria, Va.) Ry, 42, 602.	Consolidated Quarry Co., Washington, D. C., Room 8 Sun Bidg. H. P. Gilbert, prest.; J. C. Pratt, seey, and treas. Cap. stk. \$120,000. Capital View, Glen Echo, granite. Slope; steam; mill (developing).
Catoctin Furnace. Fred'k Ry, 42,	D. M. S. MacPherson, Flint, 2,000 tons,
Cockeysville. Baltimore Ry, 528.	Beaver Dam Marble Co., Baltimore, Md., 704 Constitution st. Hugh Sisson, prest.; Edward C. Wilson, seey, and treas. Cap. stk. \$100,000. Beaver Dam, marble. Open pit, 30,000 tons; steam; mills. Thos.

McDonnell, supt. Ellicott City Ry. 42. Howard Werner Bros. Jacob J. Werner, prest.; Augustus Werner, seey.; Frederick Werner, treas.; Chas. J. Werner jr., mgr. Elheott City, granite. Open pit, 10,000 tons; horse, hand.

Govanstown Ry, 41. Baltimore James J. McCann. Granife. Open pit; mill.

# STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

Location of Mine DR Quarry, Railways, Wafer Routes and Shipping Poins.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERLINS AND
TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.
Granite Baltimore Ry, Woodstock 42.	Wm, E. Cavey. Cap. \$2,000. Granite. Open pit, 1,000 tons; steam,
**	Wm, F, Weller, Cap, \$25,000. Pickwick, granite. Open pit, 10,000 tons; hand and steam; mill.
44 44	Woodstock Granife Co., Baltimore, Md., 700 W. Pratt St. Wm. A. Gault, prest.; Matthew Gault, secy., trens, and mgr. Cap. stk, \$10,000. Fox Rock, granife. Open pit, 3,500 tons; Steam, John J. Evans, supt.
Greenwood Baltimore Ry, Summerfield 804.	H. E. Shimp. Gunpowder, granite. Open pit, 1,500 tons; hand. John Chenoworth, supt.
Marriottsville Howard Ry, 42.	Maryland Soapstone Co., Tamaqua, Pa. John Weldy, prest.; K. G. Weldy, treas. Soapstone, 6,000 tons; water.
New Windsor., . Carroll Ry, 804,	Michael McCaffrey. Myers, limestone, 400 tons, hand.
Port DepositCecil Ry, 563, 577.	McClenahan & Bro, Cap. \$100,000. Granite. Open pit, 72,600 tons; steam and horse.
" "	Port Deposit Granite Co., Camden, N. J. Richard T. Miller, prest.; W. H. Raussey, seey.; D. R. Patterson, treas.; Benjamin Kepner, v-prest., mgr. and supt. Cap. stk. \$100,000. Fort Deposit, granife. Open pft; stema and hand; mill.
**	Port Deposit Stone Co. of Hartfort Co. Franklin Taylor, prest.; Otho Nowland, seey, and treas.; Thos. W. Nowland, mgr. Cap. stk. \$10,000. Granite. Horse. Wm. P. Ewing, supt.

SEE ALSO SUPPLEMENTARY LIST

Town

# MASSACHUSETTS

#### CORUNDUM

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT. COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANK, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

AND Chester... Ry. 70.

......Hampden Hampden Emery & Corundum Co. H. L. Lucas, prest.; N. A. Harwood, treas. Cap. stk. \$500,000, Corundum, 1,200 tons; steam and water.

#### IRON

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Hawley ... Franklin Forge Hill Mining Co., New York City, 35 Broadway, Wm. J. Sloane, prest.; John F. Ruttmann, seey and P. D. and Ry. Charles mont 24. Ferdinand S. Ruttmann, mgr. Cap.stk, §55,000. Forge Hill Iron Mine, magnetic, Shaft; steam. William Rogers, supt.

RichmondFurn, Berkshire Rv. 70. Franklin

hmond fron Works. George Church, prest.; P. S. Burrall, secy.; R. A. Burget, treas, and mgr. Cap. stk. \$54,000. Cone, Lute & Bacon, brown hematite. Incline, shafts, 40,000 tons; steam; furnace.

(P. O. Davis) Ry. Charlement 261. Davis W. Stockbridge, Berkshire Ry, State Line 70, 312,

Davis Salphur Ore Co., New York City, 45 Wall st. H. J. Davis, prest, and mgr.; C. B. Stranahan, supt. and treas, Cap. stk, \$15,000. Shaft, 45,000 tons; steam.

Hudson Iron Co., Hudson, N. Y., John E. Gillette, prest.; S. R. Rainey, secy, and treas.; S. C. McArthur, mgr. Chauncey Leet Ore Mine, brown hematite. Shaft, 15,000 tons; steam. Chas. R. Van Buskirk, Pomeroy Mining Co. Geo, Church, prest.; Porter S, Burrall, seey.; R. A. Burget, treas, and mgr. Cap. stk. \$5,000. Pomeroy Mine, hematite. Slope, 25,000 tons; steam.

ckbridge Iron Co. A. C. Collins, prest.; E. L. Baker, treas. Cap. stk. \$125,000. Leet Ore Bed, brown hematite. Shaft, 17,000 tons; steam. H. F. Thompson, supt.

#### MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Tisbury ....... Dukes P. O. and Ry. North Tisbury 31.

Vineyard Ocher Co., Boston, Mass., 26 India st., Cap. \$8,000. Red ocher. Open pit, 50 tons; water,

#### SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Tows

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OB WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

S. Dartmouth .. Bristol Ry, New Bedford 540,

COUNTY

Nathaniel Howland (local). Buzzard's Bay, salt, 130 tons; hand and evaporation.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. AND

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMEBILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Acton... Minute s... (P. O. North Acton) Ry, 185, 540. Middlesex

D. C. Harris, Cap. \$9,000. Marble and granite. Open pit. 1,000 tons; hand; mill.

Beverly .... Essex P. O. and Ry. Beverly Farms 71,

Essex Connolly Bros. Cap. \$5,000. Connolly, granite. Open pit, 900 tons; hand and steam.

Buckland ..... Franklin P. O. and Ry. Shel-burne Falls 261.

Wright, Lyons & Co., Springfield, Mass., 13 Cooley Block, Main st. Frank Irvin, mgr., G. G. Merrill Quarry, gne'ss., Slope, 2,500 tons; steam.

# STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock. Name of Mins or Quarry, Kinn of Knoe, Kind of Mins or Quarry, Annual Outfut in Toss of 2000 Pounds, Kind of Power Used, Stock or Marble Mills, Limerlins and
TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.
Charlton, Worcester	Arthur E. Hicaca, Walston Macc. P. O. Roy 513 Can \$5000 Rocky Hill Granife Operry, light and that
Ry, Webster 70, 573.	Arthur F. Hiseox, Webster, Mass., P. O. Box 513. Cap, \$5,000. Rocky Hill Granite Quarry, light and dar gray granite. 350 tons; hand.
**	Lamson, Woodbury & Co. Cap. \$10,000. Gray granite. Open pit, 400 tons; horse and hand. J. I. Woodbury, supt.
CheshireBerkshire Ry, 70.	A. S. Farnam & Bro. Cap. \$7,000. Limestone. Open pit; hand; kiln, 6,600 tons.
Chester Hampden Ry, 70.	Hudson & Chester Granite Co., Hudson, N. Y., 600 Warren st. Frederick J. Collier, prest.; Edwin C Rowley, seey, and treas. Cap. stk. \$150,000. Dark gray granite. Open pit and slope; steam; mll W. Laing, supt.
Concord Middlesex	Jeremiah Sheelian, Concord Junction, Mass. Gray stone. Open pit; hand; mill.
Ry, 261. Cummington Hampseire Ry, Williamsburg 504.	The Pike Manufacturing Co., Pike Station, N. H. E. B. Pike, prest, and mgr.; F. M. Tucker, seey, an treas. Cap. stk. \$70,000. Pike, sandstone.
Dunstable Middlesex Ry, 185.	Adolph J. Tetro, Nashua, N. H., 100 W. Hollis st. Cap. \$10,000. Flat Rock Hill Quarry, light granite Slope, 1.776 tons, horse.
Erving Franklin Ry, Northfield Farms 120.	
Fall River	Wm, Beattie, Quarry st. Cap. \$15,000. Gray granite. 25,000 tons; steam.
	C. H. Sears, 133 Second st. Cap. \$35,000. Merchants Mill Quarry, building stone. Open pit, 60,000 for steam. Ferd, Healy, supt.
Fitchburg Worcester Ry, 261, 540.	Litchfield Bros., 437 Main st. Cap. \$20,000. Granite. Slope; steam.
**	G. A. Teneff, 5 Hazel St. Rollstone Quarry, granite. Steam and horse.
Gloneester Essex Ry. 71.	Win, P. Barker, Quiney, Mass., 22 Greenleaf st. Granite (syenite). Open pit, 12,000 tons: steam. G. W. Hayden, supt.
69	John G. Chick fr. Stone. Open pit; hand; mill.
11 (4	Francis Reld, 5 High st. Cap. \$1,000. Granlle. 1,500 tons; horse.
	Ezra Sherburne, 37 Langsford st. Granite. Open pit, 3,000 tons; hand. James J. Vernon. Cap. 830,000. Granite. 25,000 tons, steam. John Newall, supt.
Hampden Hampden Ry, Chester 70,	Jamies J. Vernon. Cap. 830,000. Granne. 23,000 fons., secant. Journ Newarn, Supt. Hudson & Chester Granife Co., Hudson, N. Y., 630 Warren st. Frederick J. Collier, prest.; Edwin Caowley, seey, and treas. Cap. \$500,000. Blue granife. Open pit: steam. mill. Wm. York, supt.
Holliston Middlesex Ry, 70,	Daniel Phipps (local). Granite. Open pit, 2,000 tons; hand.
Lanesville Essex Ry, Gloncester 71.	Rowley & Co., 780 Washington st. Cap. \$400. Granite. Open pit, 1,500 tons, horse and hand,
Lawrence, Essex Ry, 7t.	Locke & Jones, 4 Carver st. (local). Cap. 8tk. \$20,000. Lawrence Ledge Quarry, stone. Open pit, 5.00 tons, steam. John Shea, supt.
Lynnfield Essex Ry, 88,	Thomas R. Newhall, Wakefield, Mass., 15 Eaton st. Fred E. Newhall, mgr. Lyanfield Granife Work granife. Open pit, hand. Thos. R. Newhall, supt.
$\begin{array}{ccc} \operatorname{Medford}^+: & \operatorname{Middlesex} \\ \operatorname{Ry}, 71, & \end{array}$	Martin Hawkins, 20 Paris st. Cap. \$2,000. Fulton Quarry, stone. Open pit, 25,000 tons; hand. Jas. 3 Hawkins, supt.
Milford Worcester	Samuel B. Tay. Granite and trap. Open pit; horse and hand, Darling Bros., 42 E. Worcester st. Granite. Slope, 2,000 tons; horse. Frank A. Whipple, supt.
Ry. 70, 287, 513,	Milford Pink Granite Co., Boston, Mass., 16; Devonshire st. 1, F. Woodbury, prest.; Geo. E. Leightor seey.; A. W. Eames, treas, and mgr. Cap. stk. \$5,200. Milford Quarry, plnk granite. Open ph 25,000 tons; steam. T. M. Perry, supt.
	Peter Ross, P. O. Box 792. Granite. Open pit; horse and hand.
	T. N. Sherman, Cap. \$8,000. Granite, Open pit, 2,000 tons; horse,
" the second of the	Win, M. Sherman, Cap. \$5,000. No Purchase Quarry, pink granite. Open pit, 1,500 tons; steam. G. I. Sherman, 800t.
New Bedford Bristol Ry, 31, 540.	Brownell & Murkland, Liberty Hall Bldg, Cap. \$5,000. Open pit, 10,000 tons; steam. Phineas F. Dressupt.
*	A. Rogers, 264 Pleasant st., local). Freestone Quarry. 2,000 tons: steam; mill,
Northbridge Worcester Ry, 508,	George M. Blanchard, Cap. \$5,000, Granite, 5,000 tons; band,  John T. Tank, Providence, R. L. 29 Exchange pl. Cap. \$25,000, Granite, Open pit, 10,000 tons, steam.
Peabody Essex Ry, 71.	and the second s
Pelham Hampshire Ry, Amherst 71, 120,	Shaw & Shaw, Amherst, Mass., P. O. Box 14. Granife. Open pit, hand.
Quiney Norfolk Ry. 540,	Adams Granite Works, Penn st. Geo, M. McFarlane, propr. Granite. Open pit; steam; mill.
	Badger Bros., 10t Willard st. Wigwam Quarry, granife, Steam.
*1	Craig & Richards Granite Co., 106 Water st. James Craig, prest., John H. Richards, treas. Cap. st \$20,000. Mount Ararat Quarry, dark, light and medium granite. Open pit, 1,375 tons. steam, mill.
14	Elcock & Son, 986 Copeland st. J. H. Elcock, mgr. Granite. Steam; mill,
11	Galvin Granite Co., 71 Granite st. Cap. 85,000. Dark granite. 4,000 tons; steam.

# STONE, MARBLE, GRANITE AND ONYX=(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	THES TAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF QUARRY, ANNUAL OUTPUT IN TONS OF QUARRY ANNUAL OUTPUT IN TONS OF QUARRY ANNUAL OUTPUT IN TONS OF QUARRY ANNUAL OUTPUT IN TONS OF	
TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.	
QuincyNorfolk (Continued.)	Granite Railway Co., Boston, Mass., 166 Devonshire st. Wm. B. Sewall, prest.; J. Albert Simpson, seey and treas.; H. E. Sheldon, mgr. Cap. stk. \$250,000. Granite. Open pit; steam and electricity. W. B. Robertson, supt.	
	C.H. Hardwick & Co. Granite, Steam; polishing mill,	
**	Jones & Desmond. Cap. \$5,000. Granite. Open pit, 75,000 tons; steam; mill.	
** ** *** *** ***	McDonald & Turner. Granite. Open pit. Geo. McDonald, supt.	
**	McDonnell & Sons, Garfield st., P. O. Box 85. Granite. Open pit, 3,000 tons.	
** **	Merry Mount Granite Co., 68 Water st. John C. Kapples, prest.; Patk. W. Driscoll, treas.; John Lavers mgr. and supt. Cap. stk. \$15,000. Merry Mount Quarry, granite, Open pit, 700 tons; steam; mill.	
	Milne & Chalmers, Penn st. Granite. 500 tons. Steam; mill.	
	Quincy Granite Co. F. J. Fuller, propr. Open pit, 5,000 tons; steam; mill.	
**	Alphonse Reinhalter, 116 Williard st. Cap. \$12,000. Granite. Open pit. 20,000 tons; steam; mill.	
**	O. T. Rogers Granite Co. W. H. H. Andrews, gen, mgr. Cap. stk, \$20,000. Dark and light granite. Open pit, 1,750 tons; steam; mill. M. P. Wright, supt.	
**	Townsend & Clements, Cap. \$25,000. Granite. Open pit, 7,000 tons; steam.	
Randolph Norfolk Ry, 540.	S. B. Corliss. Randolph, granite. Open pit; hand; mill,	
Rockport Essex Ry. 71.	Edwin Canney. Granite. Open pit; steam.	
** - **	Pigeon Hill Granite Co., Boston, Mass., 166 Devonshire st. F. Scripture, propr. Cap. stk. \$30,000 Granite, 75,000 tons; steam; mill.	
** **	Rockport Granite Co. Geo. O. Sanborn, prest.; Chas. S. Rogers, treas, and mgr. Cap. stk. \$200,000. Granite Open pit, 110,000 tons; steam. Frank E. Foster, supt.	
Uxbridge, . Worcester Ry, 508.	B. J. Blanchard, Cap. \$10,000. Blanchard, granite. Open pit, 5,000 tons: steam.	
Westford Middlesex Ry, 71, 185.	Charles M. Cummings. Cap. \$4,000. Bond Quarry, granite. Open pit, 3,000 tons; horse,	
	11. E. Fletcher & Co. Cap. \$15,000. Granite. Open pit, 14,000 tons; steam.	
** **	Noah Prescott, Cap. \$5,000. Stone, 2,000 tons; horse and hand; mill,	
16	Hammett D, Wright, Cap. \$2,200. Granite, surface. 4,000 tons; hand.	
W. Stockbridge Berkshire Ry, 312.	Truesdells & Fuarey. Cap. stk. \$12,000. Limestone, 7,500 tons; steam; two kilns, 4,500 tons.	
	Webb Granite & Construction Co., 44 Front st. Geo. D. Webb, prest.: Elliott K. Wheelock, seey, and treas. Cap. stk. \$200,000. Millstone Hill Quarry, stone. Open pit, 23,000 tons; steam; mill.	

SEE ALSO SUPPLEMENTARY LIST

# MICHIGAN

#### COAL-BITUMINOUS

LOCATION OF MINE, NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND SHIPPING POINT. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT. Eagle . . . . . Clinto Ry, Grand Ledge 222 Clinton Thomas Jenkins (local), Grand Ledge, Mich. Cap. \$150. Stark. Tunnel, 450 tons; hand, Grand Ledge Eaton F. Boyle, Slope, 982 tons; hand, Jackson Jackson R. H. Emerson & Co., Room 9 Allen Bennett Block, C. H. Higdon, mgr. Cap. \$14,000, Emerson, 80, Shaft, 30,000 tons; steam, John Robson, supt. Ry, 290, 383, 440, Standard Mining Co., 418 N. Mechanic st. Chas, Gage, prest.; T. B. Jones, treas.; Robt, Gage, mgr, and supt. Standard. Shaft, 25,000 tons, steam. Huron Saginaw Bay Coal Co., Saginaw, Mich., Eddy Bildg. Wm. L. Webber, prest.; James B. Peter, seey, and treas. Cap. stk. \$100,000. Saginaw. Shaft, 12,000 tons. steam. Levils Stockett, supt.

Sebewaing Coal Co., West Bay City, Mich. Spencer O. Flsher, prest; John F. Seeley, seey, and treas,; W. T. Chappell, nigr. and supt. Cap. stk. \$150,000. Shaft.

#### COPPER

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,040 POUNDS, KIND AND SHIPPING POINT. OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT. AND COUNTY.

Atlantle Mining Co., New York City, 76 Wall St., Jos, E. Gay, prest.; John Stanton, seey, and treas.; F. McM. Stanton, mgr. and supt. Cap, stk. 81,000,000. Atlantic, copper. Shafts, 297,000 tons; steam and electricity.

Allonez Mining Co., New York City, 76 Wall st. Wm. C. Stuart, prest.: John Stanton, secy, and treas, Cap, 8tk. \$2,000,000. Allonez, copper. Shafts, 4,250 tons: steam. Fred Smith, supt.

Wolverine Copper Mining Co., New York City, 76 Wall St., John Stanton, prest; John R. Stanton, secy and treas.; Fred Smith, mgr. and supt. Cap. 8tk, \$1,500,000. Wolverine, copper. Shafts, 600 tons

Centennial Mining Co. E. B. Hinsdale, prest.; D. L. Demmon, treas.; Johnson Vivian, mgr. and supt. Cap. stk. \$100,000. Centennial, copper. Shaft; steam.

Kearsarge Minling Co., Boston, Mass. Thos. Nelson, prest.; A. 8, Blgelow, seey, and treas.; J. D. Hasking, mgr, and supt. Cap. 8tk. \$1,250,000. Kearsarge, copper. Shafts, 1,200 fons; free; steam.

Cliff Copper Co., Boston, Mass., 7% Beacon st. D. D. Brockaway, mgr. and supt. Cliff, copper. Shafts: steam.

Copper Falls Mining Co., Boston, Mass., 49 Exchange pl., David Nevens, prest.; John Brooks, seey, and treas.; J. H. Moyle, mgr., and supt. Copper Falls. Tunnel and shafts, 120,000 tons; steam and compressed air; mill.

.Ontonagon per Co., Boston, Mass., 53 State st. Charles H. Andrews, prest.; Philip Highley, secy, and Alfred Meads, uigr. and supt. Cap. stk. \$500,000. Ridge, copper. Shafts, 50 tons; steam.

Franklin Mining Co., Boston, Mass. T. H. Perkins, prest.; D. L. Denmon, sery, and treas. Graham Pope, mgr. Cap. stk. \$1,000,000. Franklin, copper. Shaft, 2,200 tons; steam.

Quiney Mining Co., New York City, 52 Broadway. Thomas F. Mason, prest.; Wm. Rogers Todd, seey, and treas.; S. B. Harris, mgr. and supt. Cap. stk. 81,250,000. Quiney, copper. Shaft, 6,000 tons;

St. May Copper Co., Boston, Mass., 68 Devonshire st., John C. Walters, prest.; Frederick Beck, scey, and treas. Cap. stk. \$1,000,000. St. May, copper.

Osceola Consolidated Mining Co., Boston, Mass., 199 Washington st. A., 8, Bigelow, prest.; Thomas Nelson, seey, and treas.; John Daniell, ngr., and supt. Cap. 8tk, \$0,250,000. Osceola, copper. Shaft, 3,500 tons; steam.

Tamarack Junior Mining Co., Boston, Mass., 466 Washington st. Albert S. Bigelow, prest.; Thomas Nelson, seey, and treas. J. Daniell, mgr. and supt. Cap. 8tk, 8t,250,000. Tamarack Junior, copper Shafts, steam,

, Ontonagon Minnesota Mining Co., Boston, Mass., 19 Congress st. H. J. Stevens, prest.; D. L. Denimon, secy, and treas.; Benjamin Jefts, nigr., and supt. Minnesota, copper. Shafts; steam.

National Mining Co., Boston, Mass., 19 Congress st., W. C. Watson, prest.; D. L. Demmon, seey, and treas.; B. F. Chynoweth, nigr. Cap. stk. \$500,000. National, copper. Shafts, 100 tons, steam.

Central Mining Co., New York City, 76 Wallist. Joseph E. Gay, prest.; John Stanton, secy., treas, and mgr. Cap. stk. \$500,000. Central, copper. Shaft, 1,000 tons; steam. James Dunstan, supt.

LOCATION OF MINE, RAILWAYS, WATER ROUTES

Sebewaing Ry, 643,

Adams .... Houghton (P. O. Atlantic Mine) Ry, Houghton 229,

Allonez Keweenaw Rv. 304.

Calumet Houghton

Clifton Keweemes (P. O. Phoenly) Ry, Al-louez 364, Eagle Har-bor 386, Keweenaw

Copper Falls Mine Ry, Eagle Harbor 386,

Ry, Ontonagon 451 ...Houghton Hancock

Ry, 304, 380, 453,

Osceola Hougmon (P. O. Opechee) Ry, Houghton

Red Jacket Houghton Ry, Dollar Bay 386.

Rockland

Sherman, Keweenaw (P. O. Central Mine) Ry, Eagle Harbor 386.

LOCATION OF MINE,

### GOLD AND SILVER

RAILWAYS, WATER ROUTES AND SHIPPING POINT.  TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfut in Tons of 2,00 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
IshpemingMarquette Ry, 150, 229, 451.	Fire Centre Gold Mining Co., Milwankee, Wis., 148 New Insurance Bidg, S. S. Curry, prest.; H. S. Haselton, seey, and treas; D. McVichie, mgr. Cap. stk, \$20,000. Fire Centre, gold and Silver, Shafts and open pit; free steam and horse; mill.
" "	and open pit, ree, seem and noise, man. Gold Lake Mining Co. George Hayden, prest.; Chas. T. Fairbairne, seey, and treas.; A. B. Miner, mgr. Gold Lake, gold. Shaft; refractory; hand.
	Michigan Gold Co., Marquette, Mich., First National Bank. Chas, R. Sligh, prest.; E. B. Dikeman, seey.; E. H. Towar, treas.; J. Parke Channing, vprest. Cap. stk. \$1,000,000. Michigan, gold. Shafts; free; steam. E. L. Zukoski, supt.
. "	Ropes Gold & Silver Co. Julius Ropes, prest; C. R. Ely, secy, and treas.; W. H. Rood, mgr. Cap, stk. \$2,000,000. Ropes, gold and silver. Shaft, 30,000 tons; free; steam; 65 stamps. Geo. Weatherston, supt.
	GRAPHITE
LOCATION OF MINE	
OR BANE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	YAMF OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.
TOWN AND COUNTY.	
L'Ause Baraga Ry, Taylor's June, 229,	Lake Superior Graphite Co., Detroit, Mich., 540 River st. A. J. Boynton, prest.; R. A. Parker, secy.; A. A. Boutell, treas, and mgr. Cap. stk, \$500,000. Open pit, 1,000 tons. R. R. Williams, supt.
	GYPSUM
LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL LOCATION OF PRINCIPAL OFFICE. NAMES OF OFFICERS, CAPITAL STOCK,  NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,  MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Wyoming Kent P. O. and Ry. Grand- ville 152.	Loren Day, Cap, \$75,000. Michigam, gypsum. Open pit, 6,000 tons; water. Albert Medemo, supt.
	IRON
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfet in Tons of 2,000 Flower, Kind of Power Used, Blast Funnaces, Etc., and Name of Mine Superinterdent.
TOWN AND COUNTY.	
BeaconMarquette Ry, 150, 229, 451.	Champion Iron Co., Boston, Mass., 37 Franklin st. Jos. 8, Fay, prest.; W. E. Stone, secy, and treas.; A. Kidder, mgr. Cap. stk. \$500,000. Champion, bessemer. Shafts, 280,000 tons; steam, Walter Fifeh. stpt.
Bessemer Gogebie Ry, 449, 229, 827.	1 - O Michigan Co. Million Ann. Will So Michigan at Come P. Tawley Days to F. A. Charley Lawrence Com. Ale
	\$200,000. Anvil, hematite. Shafts, 100,000 tons; steam. D. A Bennett, supt.
** ** ***	East Dangler Iron Mining Co. Chas. Anderson, prest,; C. A. Hanscom, seey, and ugr.; T. E. Mays, treas. Cap. stk, \$1,000,000. East Dangler, iron. Shaft; steam. Andrew Johnson, supt.
"	East Dangler Iron Mining Co. Chas, Anderson, prest.; C. A. Hanscom, seey, and mgr.; T. E. Mays, treas, Cap, stk, \$1,000,000. East bangler, iron. Shaft; steam. Andrew Johnson, supt.  Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; F. T. Ives, seey, and treas. Eureka, iron. Shafts, 23,000 tons; steam. Jas. H. Pearce, supt.
""	East Damgler Iron Mining Co., Chas, Anderson, prest.; C. A. Hanseon, seey, and mgr.; T. E. Mays, treas. Cap. slk, \$1,00,000. East Dangler, Iron. Shaft, steam. Andrew Johnson, supt. Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; P. T. Ives, seey, and Iroas. Eureka, Iron. Shafts, 25,000 tons; steam. Jas, H. Pearce, supt. Lowell Iron Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shafts steam.
"	East Damgler Iron Mining Co., Chas, Anderson, prest, C.A., Hanseom, seey, and mgr.; T. E. Mays, treas. Cap. stk, \$1,000,000. East Dangler, Iron. Shaft; steam. Andrew Johnson, supt. Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; P. T. Ives, seey, and Ireas. Eureka, iron. Shafts, 25,000 tons; steam. Jas. H. Penree, supt. Lowell Iron Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shaft; steam. Mikado Mining Co., Detroit, Mich., 30 W. Fort st. M. W. O'Brien, prest.; J. T. Keena, seey, and treas. Cap. stk. \$1,000,000. Mikado, bessemer. Shaft; steam. M. P. O'Brien, supt.
""	East Damgler Iron Mining Co., Chas, Anderson, prest.; C. A. Hanseon, seey, and mgr.; T. E. Mays, treas. Cap. slk, \$1,00,000. East Dangler, Iron. Shaft, steam. Andrew Johnson, supt. Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; P. T. Ives, seey, and Iroas. Eureka, Iron. Shafts, 25,000 tons; steam. Jas, H. Pearce, supt. Lowell Iron Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shafts steam.
*	East Damgler Iron Mining Co., Chas, Anderson, prest.; C.A., Hanseom, seey, and mgr.; T. E. Mays, treas. Cap. sk, \$4,000,000. East Dangler, Iron. Shaft; steam. Andrew Johnson, supt. Eureka Iron Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; P. T. Ives, seey, and Iroas. Eureka, Iron. Shafts, 25,000 tons; steam. Jas. H. Pearee, supt. Lowell Iron Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shaft; steam. Mikado Mining Co., Detroit, Mich., 33 W. Fort st. M. W. O'Brien, prest.; J. T. Keena, seey, and treas. Cap. stk. \$4,000,000. Mikado, bessemer. Shaft; steam. M. P. O'Brien, supt. Penokee & Gogebic Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg. Jos. S. Colby, treas. Cap. stk. \$4,000,000. Colby, Tiblen and Palms, bessemer. hematife. Shaft, 570,000 tons; steam. W. J. Olcott, supt. United Mining Co., Detroit, Mich., 33 W. Fort st. M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas. Cap. stk., \$400,000. United, from. M. P. O'Brien, supt.
	East Damgler from Mining Co., Chas, Anderson, prest.; C. A. Hanseom, seey, and mgr.; T. E. Mays, treas, Can, stk, \$1,000,000. East Dangler, from Shaft; steam. Andrew Johnson, supt.  Eureka from Mining Co., Cleveland, Ohio, Perry-Payne Bdg. James Corrigan, prest, and mgr.; F. T. tves, seey, and treas. Eureka, from. Shafts, 25,000 tons; steam. Jas. H. Pearree, supt.  Lowell from Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer, Shaft; steam.  Mikado Mining Co., Detroit, Mich., 33 W. Fort st., M. W., O'Brien, prest.; J. T. Keena, seey, and treas. Cap. stk, \$1,000,000. Mikado, bessemer. Shaft; steam. M. P. O'Brien, supt.  Penoker & Gogebic Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg. Jos. S. Colby, treas. Cap. stk, \$4,00,000. Colby, Tiblen and Palms, bessemer, henatic, Shaft, 50,000 tons; steam. W. J. Olout, supt.  United Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas, Cap. stk, \$30,000. United, from. M. P. O'Brien, supt.  Hortense Mining Co., Detroit, Mich., 93 Jeneson av., Joseph Trounstine, prest.; Seymour Brownell, seey, and mgr.; Herman C. Feelhielmer, treas. Cap. stk, \$500,000. Hortense, limonite, Shaft, 20,000 tons; steam. W. Fitch, supt.
ChampionMarquette	East Dangler from Mining Co., Chas, Anderson, prest.; C.A., Hauseom, seey, and mgr.; T. E. Mays, treas, Can, stk, \$1,000,000. East Dangler, from, Shaft; steam. Andrew Johnson, supt.  Eureka from Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; F. T. tyes, seey, and treas. Eureka, from, Shafts, 25,000 tons; steam. Jas, H. Pearree, supt.  Lowell from Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas: M. W. Burt, mgr. and supt. Lowell, besseiner, Shaft; steam.  Mikado Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, supt.  Penokee K. Gogebic Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg. Jos. S. Colby, treas. Cap. stk, \$4,000,000. Colby, Tiblen and Palms, besseiner, hematite, Shatt, 570,000 tons; steam, W. J. Olcott, supt.  United Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas, Cap. stk, \$30,000. Thiled, from, M. P. O'Brien, supt.  Hortense Mining Co., Detroit, Mich., 95 Jefferson av., Joseph Trounstine, prest.; Seymour Brownell, seey, and mgr.; Herman C. Feelheimer, treas. Cap. stk, \$500,000. Hortense, limonite, Shaft, 20,000 tons; steam. W. Fitch, supt.  Phenix Iron Mining Co., Marquette, Mich., Peter White, prest, and treas; James E. Jopling, seey. Cap. stk, \$500,000. Plenix, limonite, Shaft and open plt; steam.
Champion Marquette Ry, 150, 229, 451.  Clarksburg Marquette Ry, Diorite 229,	East Damgler from Mining Co., Chas, Anderson, prest.; C. A., Hanseom, seey, and mgr.; T. E. Mays, treas. Cap. stk, \$1,000,000. East Dangler, from. Shaft; steam. Andrew Johnson, supt.  Eureka from Mining Co., Cleveland, Ohio, Perry-Payne Bldg., James Corrigan, prest, and mgr.; P. T. Ives, seey, and treas. Eureka, iron. Shafts, 25,000 tons; steam. Jas. H. Penree, supt.  Lowell from Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shaft; steam.  Mikado Mining Co., Detroit, Mich., 3W. Fort st. M. W. O'Brien, prest.; J. T. Keena, seey, and treas. Cap. stk, \$1,000,000. Mikado, bessemer. Shaft; steam. M. P. O'Brien, supt.  Penokee & Gogebie Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg., Jos. S. Colby, treas. Cap. stk, \$4,00,000. Colby, Tidden and Palms, bessemer, hematite. Shaft, 570,000 tons; steam. W. J. Oleott, supt.  United Mining Co., Detroit, Mich., 33 W. Fort st. M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas. Cap. stk, \$300,000. United, from. M. P. O'Brien, supt.  Hortense Mining Co., Detroit, Mich., 35 Jefterson av. Joseph Trounstine, prest.; Seymour Brownell, seey, and mgr.; Herman C. Feethelmer, treas. Cap. stk, \$500,000. Hortense, limonite. Shaft, 20,000 tons; steam. W. Fifeh, supt.  Phenix Iron Mining Co., Marquette, Mich., Peter White, prest, and treas.; James E. Jopling, seey. Cap. stk, \$20,000. Thenix, limonite. Shaft and open plf; steam.  American Iron Co., Ishpening, Mich. W. H. Johnston, prest.; C. R. Ely, seey.; S. K. Wambold, treas, and mgr. American, bessemer. Shaft, 40,000 tons; steam. S. K. Wambold, supt.
Champion Marquette Ry, 150, 229, 451.  Clarksburg Marquette Ry, Diorite 229,	East Dangler from Mining Co., Chas, Anderson, prest.; C.A., Hauseom, seey, and mgr.; T. E. Mays, treas, Can, stk, \$1,000,000. East Dangler, from, Shaft; steam. Andrew Johnson, supt.  Eureka from Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; F. T. tyes, seey, and treas. Eureka, from, Shafts, 25,000 tons; steam. Jas, H. Pearree, supt.  Lowell from Mining Co., Cleveland, Ohio, 164 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas: M. W. Burt, mgr. and supt. Lowell, besseiner, Shaft; steam.  Mikado Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, supt.  Penokee K. Gogebic Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg. Jos. S. Colby, treas. Cap. stk, \$4,000,000. Colby, Tiblen and Palms, besseiner, hematite, Shatt, 570,000 tons; steam, W. J. Olcott, supt.  United Mining Co., Detroit, Mich., 33 W. Fort st., M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas, Cap. stk, \$30,000. Thiled, from, M. P. O'Brien, supt.  Hortense Mining Co., Detroit, Mich., 95 Jefferson av., Joseph Trounstine, prest.; Seymour Brownell, seey, and mgr.; Herman C. Feelheimer, treas. Cap. stk, \$500,000. Hortense, limonite, Shaft, 20,000 tons; steam. W. Fitch, supt.  Phenix Iron Mining Co., Marquette, Mich., Peter White, prest, and treas; James E. Jopling, seey. Cap. stk, \$500,000. Plenix, limonite, Shaft and open plt; steam.
Champion Marquette Ry, 150, 229, 451.  Clarksburg Marquette Ry, Diorite 229,	East Damgler from Mining Co., Chas, Anderson, prest.; C. A. Hanseom, seey, and mgr.; T. E. Mays, treas. Cap. stk, \$1,000,000. East Dangler, from. Shaft; steam. Andrew Johnson, supt.  Eureka from Mining Co., Cleveland, Ohio, Perry-Payne Bldg. James Corrigan, prest, and mgr.; P. T. Ives, seey, and treas. Eureka, from. Shafts, 25,000 tons; steam. Jas. H. Pearee, supt.  Lowell from Mining Co., Cleveland, Ohio, 184 Bank st. Stephen A. Jenks, prest.; J. B. Zerbe, seey, and treas.; M. W. Burt, mgr. and supt. Lowell, bessemer. Shaft; steam.  Mikado Mining Co., Detroit, Mich., 33 W. Fort st. M. W. O'Brien, prest.; J. T. Keena, seey, and treas. Cap. stk, \$1,000,000. Mikado, bessemer. Shaft; steam. M. P. O'Brien, supt.  Penokee & Gogebie Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg., Jos. S. Colby, treas. Cap. stk, \$4,00,000. Colby, Tidden and Palms, bessemer, hematite, Shaft, 570,000 tons; steam. W. J. Oleoft, supt.  United Mining Co., Detroit, Mich., 33 W. Fort st. M. W. O'Brien, prest.; W. B. O'Brien, seey, and treas. Cap. stk, \$800,000. United, from. M. P. O'Brien, supt.  Hortense Mining Co., Detroit, Mich., 195 Jefterson av. Joseph Trounstine, prest.; Seymour Brownell, seey, and mgr.; Herman C. Feethelmer, treas. Cap. stk, \$500,000. Hortense, limonite, Shaft, 20,000 tons; steam. W. Fifeh, supt.  Phenk Fron Mining Co., Marquette, Mich., Peter White, prest, and treas.; Janues E. Jopling, seey. Cap. stk, \$20,000. Phenk, Imonite, Shaft and open plf; steam.  American Iron Co., Ishpening, Mich. W. H. Johnston, prest; C. R. Ely, seey.; S. K. Wambold, treas, and mgr. American, bessemer. Shaft, 40,000 tons; steam. S. K. Wambold, supt.  Armenia Mining Co., Milwankee, Wis., New Insurance fildg. Ferdinand Schlesinger, prest, L. Kreiel-sheiner, seev.; William Schlesinger, treas; T. F. Cole, ongr., Cap. Stk, \$300,000. Amenia, hematite,

### IRON (CONTINUED)

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tors of 2,000 Pounds, Kind of Power Used, Blast Fursaces, Etc., and Name of Mine Superinteedent.
TOWN AND COUNTY.	OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Crystal Falls	Lamont Iron Co., Chicago, Ill., 1103 Rookery Bldg, E. E. Crepin, prest.; R. Floyd Clinch, seey.; S. P. Parmly, treas.; Frank Scadden, mgr, and supt. Cap. 8tk, 8100,000, Lamont, bessemer. Shaft, 75,000 tons; Steam.
· · · · ·	Paint River Iron Co., Ashland, Wis. J. Stack, prest.; M. R. Hunt, seey, and treas.; Frank Seadden, mgr. and supt. Cap. 8tk, 8500,000. Paint River, bessemer. 85,000 tons; steam.
** **	Vork Iron Co., Milwankee, Wis., New Insurance Bldg. Ferdinand Schlesinger, prest.: L. Kreielsheimer, seey.; William Schlesinger, treas.; T. F. Cole, ingr., Cap. 8tk, \$301,100. Dann, hematite. Shaits, 181,440 (ons); Steam. 8. C Bennett, supt.
Humboldt Marquette Ry, Marquette 150, 229,	
	Samson Iron Mining Co., Chicago, Ill., 246 Phenix Bildg. Morris Sellers, prest.; J. M. Sellers, seey, and treas.; Richard A. Parker, nigr. and supt. Samson, specular and magnetic. Shaft, 22,500 tons; steam.
Iron Mountain Dickinson Ry, 150, 451,	Chapin Mining Co., Milwaukee, Wis., New Insurance Bidg. W. A. Hanna, prest.; G. H. Kent, seey, and treas. Cap. stk. \$2,000,000. Chapin, hematile, bessemer. Shafts, 700,000 tons; water and steam. Jas. MacNaughton, supt.
**	Lumberman's Mining Co. A. A. Carpenter, prest., Francis A. Brown, seey., treas, and mgr. Cap. stk. \$1,600,000. Endington, bessemer. Shaft, 150,000 tons; steam, hydraulic, compressed air.
. "	Marquette Iron Syndicate, Milwaukee, Wis., 4 Old Insurance Bldg. W. A. Severson, prest, and mgr.; R. L. Dingwall, seey. Cap. stk. \$2,000,000. Antoine, Iron. Shaft; steam.
"	Pewabie G., Milwankee, Wis, 335 E. Watter st., Mack Block. G. D. Van Dyke, prest.; W. D. Van Dyke, seey, and freed, Nelson P. Hulst, mgr. Cap. 84k, \$200,000. Fewabic, bessemer. Shaft, 73,125 fons; steam and compressed air. E. F. Brown, supt.
Tronwood, Gogeble Ry, 449, 827,	Ashland Iron Mining Co. E. A. Hayes, prest, and mgr. J. O. Hayes, seey, and treas. Ashland, iron ore. Shaft, 400,000 tons. steam. J. H. Taylor, supt.
0	Aurora Iron Mining Co., Cleveland, Ohlo, Perry-Payne Bldg, Jos, L. Colby, treas.; A. L. Dickerman, mgr. Aurora, North Aurora and Vaughu, bessemer. Shafts, 300,000 tons; steam. W. J. Olcott, supt.
	Metropolitan Iron & Land Co., Milwankee, Wis., 148 New Insurance Bidg. 8, 8, Curry, prest, and mgr.; H. S. Haselton, seey.; S. J. Petil, treas. Cap. 8tk, \$2,500,000. Norrie, East Norrie and Pabst, bessemer, Shafts; steam, J. D. Day, supt.
	Newport Mining Co., Milwaukee, Wis. E. H. Bottum, prest.; C. E. Wilde, seey., J. J. Gill, treas.; E. W. Oglebay, mgr. Newport, bessemer. Shafts, steam, M. W. Burt, supt.
**	Penokee K Gogebje Development Co. C. C. Colby, prest.; J. L. Colby, treas.; A. L. Dickerman, mgr. Comet, Palms, Tilden, Colby, Airora and Superior, bessener; hematite. Shaft, 1,000,000 tons; steam and air. W. J. Gleott, supt.
18hpenning , Marquette Ry, 150, 229, 551.	East New Vork Iron Co. S. K. Wambold, prest., C. R. Ely, seey., M. J. Luther, treas.; J. Parke Chanding, mgr. and supt. (ap. 84k, \$1,800,00). East New York, bessemer and hematife. Shafts, 56,250 tons; steam.
	Lake Superior Iron Co., Boston, Mass., 28 State st. G. W. R. Matteson, prest., A. C. Tenney, secy., Jos. F. Fay, treas. Cap. 8tk, 82,500,000. Lake Superior, red specular. Shafts, 450,000 tons; steam. W. H. Johnston, supt.
. "	Pittsburgh & Lake Angeline Iron Co., Cleveland, Ohio, Perry-Payne Bidg, Jas. Laughlin Jr., prest.; Wm. G. Pollock, seey, and treax, A. Kidder, mgr. Cap. 8tk, \$50,000. Lake Angeline, bessemer, Shatts, 275,000 tons, Steam. Thus, Walters, squ.
	Winthrop Iron Co., Cleveland, Ohio, Perry-Payne Ridg, M. A. Hanna, prest.; A. C. Saunders, seey, and treas.; F. Braastad, ngr. Cap. stk, \$50,000, Winthrop and Mitchell, hematite. Shaft, 150,000 tons; steam. C. T. Fairbairne, supt.
Mansfield Iron Ry, 150,	Mansfield Iron Mining Co., Chreago, Ill., 310 Phenix Bldg. W. S. Calhoun, prest., C. H. Terry, treas, Cap, 8tk, \$500,000. Mansfield, iron ore. Shaft, 75,000 tons; steam. Louis Aschelman, supt.
Michigamme: Marquette Ry, Marquette 229,386.	Imperial, limonite. Open pit and shafts, 40,000 tons; steam. J. C. Trembath, supt.
Negaunce, Marquette Ry, 150, 229,	Buffalo Mining Co., Milwankee, Wis., New Insurance Bldg. Ferdinand Schlesinger, prest.; A. B. Geilfuss, seey.; Win. Schlesinger, treas. T. F. Cole, mgr. and supt. Cap. 8tk. \$1,000.000. Buffalo, hematite. Shafts 548,800 tons; steam.
Norway Dickinson Ry, 150,	Appleton Mining Co., Chicago, Ill., 119 and 121 La Salle 81., Room 50. W. H. C'Brien, seey, and treas, Cap. 81k, \$1,000,000. Appleton, Little Ones, Loretto and Columbus, hematic and bessemer. Shaft, 80,000 fors; Steam. Capt. James Bryant, 8191.
	Aragon Mining Co., Milwankee, Wis., 71 New Insurance Bidg. Angus Smith, prest, and treas.; A. W. Wilkins, seey.; P. Larsson, mgr., and supt. Cap. stk, \$1,000,000. Aragon, bessemer. Shafts, 200,000 tons; steam.
** 12	Finlay Minling & Exploring Association, Negamee, Mich. Robert Finlay, prest.; J. D. Campbell, seey, and treas.; John Finlay, mgr. and supt. Cap. stk. \$10,000. Finlay, bessence iron ore. Shaft; steam (developing).
**	Valencia Mining Co., Milwaukee, Wis., 71 New Insurance Bldg. Augus Smith, prest, and treas.; A. W. Wilkins, seey. Steam. P. Larsson, supt.
Palmer Marquette Ry, 150,	Platt Mining & Manufacturing Co., R. J. Whaley, prest.; F. A. Platt, seey, and treas. Platt, bessenier, Shaft, Chas, L. Lawton, supt.
*	Volunteer Iron Co., Detroit, Mich., Telegraph Bldg. Wm. C. Collourn, prest.; J. C. Mctaul, seey, and treas; A. Kilder, mgr. Cap. stk. 81,000,000. Volunteer, iron. Shafts, 260,000 tons; steam. Thos. Walters, supt.
Republic Marquette Ry, 229,	Republic Iron Co., Cleveland, Ohio, 25 Wade Bidg. W. D. Rees, prest, and treas,; W. D. Castle, seey. Cap. stk, 32,500,000. Republic, specular and magnetic. Shaft, 225,000 tons, steam and water. Capt. Peter Passes, supt.

Richmond, Marquette Volunteer Iron Co., Detroit, Mich., Telegraph Bidg, Wm. C. Colbourn, prest.; J. C. McCaul, seey, and (P. O. Palmer) Ry. 229. treas. Cap. 8tk, \$1,000,000. Volunteer, specular. Shaft, 150,000 tons; steam. Thos, Watters, supt.

Caseville ...

Ludington

Manistee .

Marine City Ry, 380, 379,

Oscoda Rv. 380.

Ry. 262.

Ry. 262. Eastlake.

Ry. 455.

Logimon on March

#### IRON-(CONTINUED)

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.		R ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POWERS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE MUPERINFRIDENT.
Town	AND	COUNTY.	OF TOWER CASE, DEAST TORNACES, EIC., AND NAME OF MINE OUPERNIENDENT.
	intain. urr 229		Spurr Iron Mining Co., Detroit, Mich. Wm. A. Moore, prest.; Wm. J. Gray, seey, and treas. Cap. stk \$250,000. Spurr, magnetic. Shaft, steam.
Stoneville Ry. 229		larquette	Saginaw Iron Mining Co., Saginaw, Mich. L. Tillotson, prest.; C. H. Gage, seey.; F. C. Stone, treas.; T. H. Bargh, mgr. and supt. Saginaw, iron. Shafts, 4,000 tons; steam.
Wakefield Ry. 44:		Gogebic	Brotherton Iron Mining Co., Milwaukee, Wis., 388 E. Water st. Joseph Sellwood, prest.; Edw. Niedecker seey.; M. J. Suther, treas.; Jos. Sellwood, ngr. Cap. stk. \$2,060,000. Brotherton, hematite, bessemet Shafts, 100,000 tons; steam. Richard Bowden, supt.
44		6.6	Penokee & Gogebic Consolidated Mines, Cleveland, Ohio, Perry-Payne Bldg.; Joseph L. Colby, treas Cap. stk. \$4,000,000. Superior and Comet, bessemer, hematite. 380,000 tons; steam. W. J. Olcott, supd
4.6		**	Sparta fron Mining Co., P. H. Putnam, prest, and mgr.; F. N. Newton, secy.; M. A. Thayer, treas. Capstk. \$1,000,000. Sparta, iron. Shafts, 25,000 tons; steam. Capt. P. H. Byrnes, supt.
**		**	Sunday Lake & Gogebic Co., Milwaukee, Wis., New Insurance Bldg, Ferdinand Schlesinger, prest.; I Kreielsheimer, seev.; William Schlesin, Green, T. F. Cole, mgr. Cap. Stk. \$100,000. Sunday Lake hematite, Shaffs, 72,300 tons; steam. John Me Leod, sup.
LOCATI OI RAILWAYS, AND SHI	ON OF R WELL WATER	ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce.  Name of Mine, Kind of Product, Kind of Mine or Well, Annual Output in Tons of 2,000  Pounds, Kind of Power Used, Etc., and Name of Mine Superintendent.
Town	AND	COUNTY.	TOURDS, MIND OF TOURS COED, DIC., AND MAKE OF MINE SUPERMEMBERT.
Algonae Ry, 379		St. Clair	Walton Salt Co. Albert Millen, prest.; Edgar Rexford, secy., treas, and mgr. Walton, fine. 18,000 brls steam. Wm. Beers, supt.
Bay City. Ry. 161	, 262, 4	Bay	F. E. Bradley, 401 N. Water st. Fine. 3 wells, 35,000 brls.; steam. Wm, Gilenan, supt.
14		. 15	Dolson, Chapin & Co. Fine. Wells, 50,000 brls.; steam.
46		11	Eddy, Avery & Eddy. 5 wells, 60,000 brls.; steam. F. H. Mason, supt.
**			McLean & Co., 1509 S. Water st. Cap. \$150,000. Fine. 5 wells, 50,000 brls.; steam. John Kanall, sup-
		. "	Michigan Pipe Co. S. A. Hill, prest.; Henry B. Smith, secy. and treas. Cap. stk. \$100,000. Coarse 2 wells, 20,000 brls.; steam. M. F. Wilcox, supt.
**		••	Pitts & Cranage, Washington st. Fine. Wells; evaporation.
Buena Vis Ry. Sa 379, 4	iginaw	Saginaw 222, 262,	Melchers & Nerreter, Saginaw, Mielt. Cap. \$15,000. Fine. Well, 12,000 brls.; steam,
Carrollton Ry, 161			A. T. Bliss, Saginaw, Mich., 321 N. Hamilton st. Fine. Wells, 125,000 brls.; steam. C. C. Cook, supt.

Crow Island. .... Saginaw S. W., Tyler & Son, Saginaw, Mich., 6 Penny Bldg. Fine. Wells, 26,000 brls.; steam; D. H. Slater, supt.

W. B. Rouse, Essexville, Mich. Fine. Well, 32,000 brls.; steam.

... Manistee R. G. Peters Salt & Lumber Co. Michigan Trust Co., receiver. Coarse. 5 wells, 430,000 brls.; steam.

Mason Pere Marquette Lumber Co., cor. Main st. and Ludington av. John Mason Loomis, prest.; F. J. Dowland, seey., treas, and mgr. Cap. stk. \$50,000. Fine, Wells, 100,000 brls.; steam. H. E. Freeman.

Eureka Lumber Co., 72 Arthur st. James Dempsey, prest.; Wm. Wente, seey, and treas. Cap. stk. \$25,000. Wells, 120,000 brls.; steam.

Marine City Stave Co., Samuel Heavenrich, prest.; R. B. Bloodgood, secy.; C. A. Calzin, treas, and mgr. Cap. stk. \$125,000. Marine City, common, fine, coarse. 90,000 brls.; steam.

Pack, Woods & Co., G. W. N. Pack, prest.; Edwin F. Holmes, secy. and treas.; Greene Pack, mgr. Cap. stk. \$300,000. Pack & Woods, fine. 90,000 brls.; steam.

Thomas Percy, Cap. \$75,000, Coarse, Wells, 180,000 brls,; steam, Fred, L. McElroy, supt. Canfield Salt & Lumber Co. John Canfield, prest.; Frank W. Canfield, secy, and treas. Cap. stk. \$1,500,000. Fine. Wells, 140,000 brls.; steam.

Louis Sands, Cap, \$50,000, Fine, Well, 100,000 brls.; steam, Nath. Blizzard, supt. St. Clair Marine City Salt & Brick Works. John Mitchell, prest.; W. F. Sanber, secy., treas., mgr. and supt. Cap. stk, \$50,000. Marine City, fine. Wells, 75,000 brls.; steam.

. . . . . losco Gratwick, Smith & Fryer Lumber Co., Tonawanda, New York. Wm. H. Gratwick, prest.; Edward Smith, secy. and treas. J. V. O'Brien, ugr. and supt. Cap. stk. \$500,000. Fine. 2 wells, 80,000 brls.; steam.

" ...... " E. C. Chapman, Shaft, 29,250 brls.; steam, eville... ... .Huron Curran, Flach & Conley, Fine and coarse, 3,000 bris.

supt.

Hampton...... Bay J. R. Hall, Cap. \$30,000. Common and fine. 42,000 brls.; steam, (P. O. Bay City) Ry.

#### SALT-(CONTINUED)

LOCATION OF MINE OR WELL,
RAILWAYS, WATER ROUTES AND SHIPPING POINT.
TOWN AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000

POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUFFERINFEMENT.

Ry. 222, 223, 2	62, 379, 440.	
**		Brand & Hardin, 500 S. Water. Fine and common. 44,000 brls.; steam.
The same	. **	Briggs & Cooper, Cap, \$30,000. Common and line. Well, 10,900 bris.; steam.
44		C. L. Grant & Co. Cap. \$20,000. Fine and coarse. Shaft, 15,000 brls., steam. C. L. Grant, supt.
B		Green, Ring & Co. Fine. 4 wells, 60,000 brls.
41 .		D. Hardin & Co., 605 S. Water st. Fine. Well, 8,000 brls.; steam. H. P. Denison, supt.
**	**	N. Holland, foot of Atwater st. Fine, 4 wells, 40,000 brls.; steam,
4+		Linton Manufacturing Co., cor. Jefferson av. and Enclid st. A. Linton, prest.; C. E. Linton, seey, and mgr.; W. S. Linton, treas. Cap. stk. \$100,000, Common, Well, 30,000 brls., steam. Peter Christian, supl.
41	**	Chas, Merrill & Co. Cap. 40,000. Fine. 4 wells, 65,000 brls., steam. Wm. J. Mason, supt.
**	**	Merrill & Ring.   Fine.   Wells, 32,000 brls., steam.
44	••	W. B. Mershon & Co. W. B. Mershon, prest, and mgr., Chester Brown, seey, and treas. Cap. 8tk, 8250, 600. Fine. Well, 30,000 brls.; steam.
**	**	Michigan Dairy Salt Co. (C. K. Eddy & Son). (cap. stk. \$25,000. Table, dairy. 400,000 brls.; steam.
+4	**	Michigan Salt Co. Thos. Cranage, prest.; A. G. Holland, seey.; C. A. Rust, treas. Cap. stk. §200,000, Common, fine, dairy. Wells, 300,000 brls.
**		Rust Bros. & Co. Cap. stk. \$25,000, Coarse, 37,000 brls., steam.
44		Sample & Camp. Common, Well, 15,000 brls., steam.
8t, Clair Ry, 379, 440,	St. Clair	Diamond Crystal Sait Co. C. F. Moore, prest, and mgr., R. R. Mooré, secy, and treas, Cap. stk. \$17,500, Diamond, line. Well, 33,000 brls., steam. John Clark, supt.
	. "	Thomson Bros., Front st. Cap. \$80,000. Coarse and line. Wells, 55,000 brls., steam. A. Meno, supf.
Sand Beach Ry, 262, 379.	Huron	Huron Dairy Saft Co. Geo. W. denks, prest., Chas. S. Niens, secy, and treas., John G. Puddock, mgr., and supt. Cap. stk. \$50,000. Coarse and fine dairy. Well, 35,000 brls., steam.
Stronach Ry, 262, 380,	Manistee	Strouach Lumber Co., John Canfield, prest.; Wm. R. Thorsen, seey., freas, and mgr., Cap. 8tk, \$250,000, Fine and coarse. Wells, 100,000 brls., steam.
Tawas City Ry, 220, 380,	Iosco	Winona Salf and Lumber Co., John B. Fellows, prest, and mgr., Geo. R. Kinne, seey, and treas. Cap. stk, \$100,000. Winona, fine. Well, 23,000 brls.; steam.
West Bay City Ry, 161, 262,	Bay 440,	H. W. Sage & Co.   Fine.   20,000 brfs., steam.   W. M. Fletcher, supt.
h+	**	Carpenter & Co.   Fine,   40,000 brls., steam.
Zilwaukee Ry, 161, 440.	Saginaw	Rust, Eafon & Co., Saginaw (W. S.), Court St. (Fine.) Well, 39,001 bres., stram. (P. Stafford, supt.
		SLATE
LOCATION OF RAILWAYS, WATE AND SHIPPING TOWN AND	ER ROUTES	Name of Company or Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name of Quarry, Kind of Slate, Kind of Quarry, Annual Output in Toss of 2,00 Pounds, Kind of Power Used, Mills, Etc., and Name of Quarry Streenintendent.
Arvon Ry, 229.	, Baraga	Michigan State Co. James M. Turner, prest, and treas.; F. E. Robson, seey., C. M. Turner, mgr, and supt. Cup. vtk, \$500,000. Steam.
	ST	ONE, MARBLE, GRANITE AND ONYX
	,1	7.25 (4. 30.4 (C)) 114, (C)(1.3.31 14.31 14.31 17.31 1
LOCATION OF OR QUART RAILWAYS, WATE AND SHIPPING TOWN AND	RY. R ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINK OR QUARRY, KIND OF STONE, KIND OF MINK OR QUARRY, ANNIAL OUTPUT IN TONS OF 2,00 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Alabaster Ry, 440.		Western Plaster Works., South Chicago, III - B. F. Smith, prest, and mgr.: B. W. McCausland, seey, and treas. Cap. stk. \$400,000. Gypsiun rock. Open plt. steam.
a testing at with contract time	11	Character Laborator Coloradora Laborator Maria Laborator Anna Laborator Coloradora Color

24.7.2.410	**	tras, Cap. ster consent. Opportunition & Open pic, steam,	
Grind Stor Ry, Po	ne City - Huron ert Austin 262.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest.; Geo. H. Worthingtoseey, and freus. Cap. stk. 82,500,000. Grindstone, sandstone. Open pit, 42,000 tons; steam, in James Nicholl, supt.	ill.

Holland Ry, 152,	Ottawa	Waverly Stone Co. H. D. Post, prest.: H. H. Pope, vprest., W. J. Garrod, seey.; J. C. Post, treas.; F. C. Hall, ngr. Cap. stk. 825000. Waverly, sandstone. Open pit, 23,155 tons; steam; mill. John Stroop, supt.
lda Ry, 383,	Monroe	N. Davis, Cap. \$15,000. Ida, limestone. Open pit; steam, mill, kiln, 3,000 tons.

Ishpening Marquette Ry, 150, 220,	American Verde Antique Marble Co., Milwankee, Wis., 25 Wisconsin st., C. M. Kendall, prest.; M. V Sherman, seey, and freas, Cap. stk. \$20,000, Green marble, Steam, Capt. James F. Trowell, supt.	٧.
Jacobsville Houghton	Furst, Neu & Co., Chicago, Ill., 487-491 La Salle st. P. W. Nen, mgr. Red and brown sandstone. 45.00	O!

(19) \* (19)

#### STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

Location of Mine or Quarry, Railways, Water Routes and Shipping Point,

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE OF QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

COUNTY. TOWN AND Jacobsville.

(Continued.)
 Portage Red Stone Co., Chicago, Ill., 189 La Salle St. J. S. Malone, prest.; E. T. Malone, secy.; John (Continued.)
 Thomlinson, treas. Cap. 8tk. \$25,000. Portage Entry, red sandstone. Open pit, 25,500 tons; steam.
 P. B. Parker, supt.

L'Anse Baraga Detroif Brownstone Co., Detroit, Mich., 592 Hammond Block. Willard Pope, prest.; John Bissell, seey.; Ry, 229, 386. Chas. T. Miller, treas.; Charles H. Little, mgr. Cap. 8tk, \$500,000. Brownstone. Open pit, 2,000 tons; steam; mill. Win. Corrie, supt.

Marquette ......Marquette Furst, Neu & Co., Chicago, Ill., Room 42, 187 La Salle st. Peter W. Neu, mgr. ... Ry, 141, 150, 386. brown and red stone. Open pit, 14,000 tons; steam; mill. Peter Fickel, supt. Marquette Brown Stone,

Monroe ...... Ry, 383, 440,

Monroe Michigan Stone and Supply Co., Detroit, Mich., 40 W. Fort st. Gus. F. Smith prest, and mgr.; Cameron Currie, seey, and treas. Cap. stk. \$100,000, Limestone, Open pit, 50,000 tons; steam, James Anderson, supi.

Newtonville Ry. 329, 386.

Michigan Stone & Supply Co., Detroit, Mich., 40 W. Fort st. Gus F. Smith, prest, and mgr.: Cameron Currie, seey, and treas. Cap. stk. \$100,000, Bluestone, limestone. Open pit, 50,000 tons; steam; 4 crushers. Frank C. Kevens, supl. .. Baraga Michigan Red Stone Co., Chicago, Ill., 187 La Salle st. Peter A. Pickel p est.; P. W. Neu, secy, and mgr.; H. Furst, treas. Sandstone, 15,000 tons; steam. J. W. Wyckoff, supt.

Portage Red Sandstone Co. Joseph D. Lloyd, prest,: Joseph H. Hillyer, secy. Chas. W. McFadden, treas, Caleb T. Le Tourneau, mgr. Cap. stk. \$100,000. Red sandstone.

Rock River Brownstone Co., Bay City, Mich. W. I. Brotherton, prest.; J. L. Stoddard, seey.; Geo. Rarnes, Fras. H. N. Watrous, mgr. Cap. sik. \$30,000. Rock River, sandstone. Open pit; steam; mill (developing). S. F. Cook, supt.

Huron Bay Port Quarries, Bay Port, Mich. Wm. L. Webber, prest. Bay Port, limestone. Steam; 4 kflns. 5,000 kg,643, tons. Wm. H. Wallace, supt.

SEE ALSO SUPPLEMENTARY LIST

# MINNESOTA

#### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY.

Grand Marais . . . Cook Grand Marais Copper Mining Co., Chicago, 111, 2 Sherman St., Room 42, Henry P. Darlington, prest, Ry, 386. Geo, Emory, seey.; Frank Floyd, treas, and mgr. Cap. stk, \$2,000,000. Grand Marais, copper. Shaf and tunnel; hand.

#### GOLD AND BILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY.

Grand Marais......Cook North Shore Mining Co., Detroit, Mich., 46 Bank Chambers. Jas. G. Battelle, prest.; H. F. Eberts, seey and treas. Cap. stk. \$1,000,000. North Shore, silver. Shaft; free, steam (developing).

Ancient Diggings Co., Sault Ste. Marie, Mich., 362 Fortage av. Wm. P. Spalding, prest, treas, mgr, and supt.; Lewis D. Kemp, seey. Cap. stk. \$1,000,000. Silver. Shaft and levels, free; steam developing).

IRON				
TOWN AND	COUNTY.			
Duluth 2 Ry, 386, 231.	.St. Louis	Campbell fron Co., 8t, Paul, 601 Pioneer Press Bildg. J. E. Campbell, prest., Frank Barrett, seey, and mgr.; W. W. Braden, treas, Cap. 8tk, \$3,000,000. Campbell, bessenner. Shaft, 30,000 tons; steam.		
**		Champlon Iron Co., 631 Chamber of Commerce. R. H. Palmer, prest.: H. C. Crawford, seey, and treas. Chas. F. Howe, mgr., and supt. Cap. 8(k. \$3,000,000.   Developing.		
**	**	Clark Iron Co., 421 Chamber of Commerce, M. J. Clark, prest., M. W. Bates, seey.; John G. Williams treas.; A. B. Upton, mgr. Cap. 8tk, \$3,000,000. Clark, Iron. Shaft (developing).		
**	**	Kakana Iron Co. D. H. Merritt, prest., R. L. Kneble, secy.; B. Murphin, treas., Geo. Fay, mgr. Cap stk. \$1,000,000. Red hematite. Steam developing., E. J. Longyear, supt.		
"	94	Keewatin Iron Co., Room 6, 218 W. Superior st. Martin Pattison, prest.; Myron Reed, seey.; H. H. Gree, treas.; H. R. Spencer, mgr. Cap. 8tk. 83,000,000. Keewatin, red hematite. Shaft; stean developing. Salas Robinson, supt.		
**	**	Keystone Iron Co., 513 Pailadio Bldg. Clinton Markell, prest.; E. R. Brace, secy.; H. W. Pearson, treas. H. W. Cheadle, mgr. (cap. stk. \$3,000,000). Shaft developing).		
	••	Mesaba Chief, Iron Co., 312, 313 Lyceum. L. A. Belding, prest., A. T. Crossley, seey, and treas.; J. C. Mishler, vprest, Cap. 8tk, \$3,000,000. Mesaba Chief, hematite. Open pit. John Wallman, supt.		
	"	North Star Iron Co., Baltimore, Md., 409 Second St., Bernard N., Baker, prest.; Benj. Whiteley, secy, and Ireas.; D. H. Merritt, vprest, and mgr., Cap. stk. \$1,000,000, (Developing.)		
**		Ohlo Mining Co., 567 Chamber of Commerce Bldg. Jas. E. Campbell, prest.; Fred Barrelt, seey, and mgr., T. H. Pressnell, treas. Cap. 8tk. \$3,000,000. Soft hematite. Open plt. 150,000 Ions; steam. Col. W R. Wallace, supt.		
**		The Pennsylvania Iron & Steel Co. of Minnesota, 569 Lyceum Bldg. Wm. C. Bond, prest.; Frank M Zeller, seey.; Simon Clark, treas. Cap. st& \$3,000,000. William Penn, hard and soft hemalite. Oper pit and shaft (developing). T. W. Wood, supt.		
**	**	Sheriden Iron Co., 568 Burrows Block. R. H. Harris, prest.; C. E. Shannon, seey, and treas.; W. C. Me Comber, mgr. and supt. Cap. stk, \$1,000,000. Sheriden, red hematite. Shaft, steam.		
		Towanda Iron Co., 217 Chamber of Commerce. J. T. Hole, prest.; C. S. Morrow, secy.; B. T. Hole, treas.; John Sullivan, mgr. Cap. stk. \$30,000. Towanda, iron. Open pit developing). Eric Branell, supt.		
		Washington Iron Co., 421 Chamber of Commerce. Hon, T. B. Miller, prest.; M. W. Bates, seey.; Win, B. Miller, treas.; James A. Boggs, mgr. Cap. 8tk, 83,000,000. Washington. Open pit (developing). E. W. Barnes, supt.		
Ely	St. Louis	Anderson from Co., Dufuth, Minn. W. C. Sherwood, prest.; Charles T. Clement, seey, and treas.; James Rale, page, and spit. Con., etc., Anderson Mine, baseauger, Shefter, John		

Rv. 230.

Grand Rapids Ry. 231 La Prairie Ry. 386

Bale, mgr. and supt. Cap. stk. \$1,000,000. Anderson Mine, bessemer. Shafts: steam.

Chandler Iron Co., Chicago, Ill., 1013 Rookery Bldg. C. P. Coffin, prest.; E. L. Merriman, seey.; H. S. Pickands, treas.; Joseph Sellwood, mgr. Cap. stk, \$1,000,000. Chandler, bessemer. Shafts, 500,000

Pioneer Vermilion Iron Mining Co. Thomas Bardon, prest.; Wm. 41. Phipps, seey, and treas. Ploneer Mine, red hematite bessemer. Shafts, steam. E. J. Gilbert, supt.

Hasca Mesaba Iron Mining Co., West Superior, Wis., 714 Tower av. A. G. Bernard, prest.: Conway C. Wyatt, seey, and mgr.; H. DeWitt, treas. Cap. stk. 81,500,000. Mesaba, red hematile. Steam.
 Hasca Buckeye Iron Co., St. Paul, Minn., 60 Pioneer Press. Bidg. James E., Campbell, prest.; Frank Barrett, seey.; W. W. Braden, treas.; E. W. Griffin, mgr. and supt. Cap. stk. 83,000,000. Buckeye and Diamond, bessemer. Open pit; steam.

Columbus Mining Co., St. Paul, Minn., 601 Pioneer Press Bldg. Allen W. Thurman, prest.; Frank Barrett, seey, and mgr.; W. W. Braden, treas. Cap. stk, \$2,000,000. Thurman, bessemer. Shaft; steam.

#### IRON-(CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROI AND SHIPPING POIN	UTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine. Kind of Ore, Kind of Mine, Annual Outfut in Tons of 2800 Pounds, Kind of Power Used, Blast Furnaces, Etc., and Name of Mine Suberntendent.
TOWN AND COL	UNTY.	
La Prairie 1t	tasca	Hoch-Hoching 1ron Co.; St. Paul, Minn., 601 Pioneer Press Bldg. J. H. Baker, prest.; C. F. Nester, secy, and treas. Cap. stk. \$1,000,000. Lancaster, bessemer. Steam. J. H. James, supt.
McKinleySt. L (P. O. Duluth) Ry	Louis . 230.	McKinley Iron Co., Dulath, Minn., 14 Exchange Bldg. Wm. McKinley, prest.; A. G. McKinley, secy, and treas.; Duncan McKinley, ingr. and supt. Cap. stk. \$5,000,000. McKinley Mine, bessemer, soft hematite. Shaft, 100,000 tons.
Merritt St. I. Ry, 230.	Louis	Bessemer Iron Co., Duluth, Minn., 33 Exchange Bldg. Geo. H. Claypool, prest.; Edward C. Jones, secy., Wm. B. Silory, treas.; L. J. Hopkins, mgr. Cap. stk. \$3,000,000. Bessemer. Shaft and tunnel (developing). E. H. Jones, supt.
**	**	Chicago Iron Co., Duluth, Minn., 703 Palladio Bldg. O. D. Kinney, prest.; P. S. Bemis, secy.; J. T. Hale treas.; Jas. Billings, vprest. and mgr. Cap. stk, \$5,000,000. (Developing.) N. F. Johnson, supt.
**		Cineinnati Mining Co., Duluth, Minn., 65-610 Lycenut Bldg. Jas. T. Hale, prest.; Frank Cox, secy.; Morris O. Brooks, treas. Cap. stk. \$3,000,000. Cincinnati, bessemer. Open pit; steam (developing). F. Florada, supt.
*	*4	Hale Iron Co., Duluth, Minn., 211 Chamber of Commerce. Jas, T. Hale, prest, and mgr.; Jesse Norton-seey.; B. T. Hale, treas. Cap. stk. \$3,000,000. Hale, bessemer. Open pit (developing). E. Florada, supt.
**	**	Iron Cliff Mining Co., Duluth, Minn., 292 Palladio Bldg. Henry Keller, prest, and treas.; John R. Homes, seey.; Edgar Brown, mgr. Cap. stk, \$3,009,000. Iron Clift, red hematite. Shafts; steam. Edgar Brown, supt.
44		P. L. Kimberly, Sharon, Pa. Biwabik, bessemer. Open pit, steam.
**	**	Towanda Iron Co., Duluth, Minn., 217 Chamber of Commerce, J. T. Hole, prest.; C. S. Morrow, seey.; B. T. Hole, treas.; John Sullivan, mgr. and supt. Cap. stk, 83,000,000. Towanda, bessemer. Open pit; hand
Mesaba St. 1 Ry. 230.	Louis	Aurora Iron Co., Duluth, Minn., 703 Palladio Bldg. Geo, N. Bissell, prest.; P. 8. Bemis, seey, and treas.; James Billings, mgr. Cap. stk. \$3,000,000. Aurora. W. A. Brandorr, supt.
6	**	Biwabik Mountain Iron Co., Duluth, Minn., Fargusson Bldg. Leonidas Merritt, prest.; E. H. Hall, seey, and treas.; John E. Merritt, mgr. Cap. stk. \$3,000,000. Biwabik, bessener. Open pit. John G. Cohoe, supp.
44		Great Northern MiningCo., Duluth, Minn.,503 and 504 Palladio Bidg. Alfred Merritt, prest.; G. L. Robbins, seey; E. T. Merritt, treas.; J. A. Nichols, mgr. and supt. Cap. stk. \$2,500,000. Shaft and open pit; steam (developing).
44		Iron Belt Mining Co., Duluth, Minn., 419 Lyceum Bldg. Cap. stk. \$1,000,000. (Developing.)
**	**	Lake Superior Iron Co., Duluth, Minn., 449 Lyceum Bldg, W. F. Mattes, prest.; A. J. Trimble, secy.; Peter Deys, treas.; Frank Hibbing, mgr. Cap. stk. \$5,000,000. (Developing.)
**	**	Little Mesaba Iron Co., Minneapolis, Minn., 422-425 Lumber Exchange. R. W. Cavenaugh, prest., E. F. Dodge, seey, and treas.; Geo. H. Dodge, mgr. Cap. stk. 83,000,000. Red hematite, bessemen developing).
4+	**	Mesaba Iron Co., Duluth, Minn., 402 W. Superior st. Alex, Ramsey, prest.; W. W. Spalding, secy, and treas. Cap. stk., \$3,000,000. Magnetic and hematite (developing).
**	**	Oncota Iron Mining Co., Duluth, Minn., 302 Palladio Bidg. F. W. Merritt, prest.; Grant Wyatt, seey.; E. F. Clarke, treas.; John Fraser, mgr. and supt. Cap. stk. \$1,500,000. Oncota, red hematite. Shaft; hand (developing).
44	••	Republic Iron Co., Duluth, Minn., 45 Fargusson Bldg. P. M. Graff, prest.; F. W. Eaton, seey.; John G. Brown, treas. Cap. stk. \$3,000,000. Republic, hematite. Open pit. R. H. Fagan, supt.
14	**	Shaw Iron Co., Duluth, Minn., 548 Chamber of Commerce, Alfred Metritt, prest.; A. J. Taleon, seey.; A. R. Merritt, treas.; Capt. J. Carbis, mgr. and supt. Cap. 84k, \$3,000,000. Shaw, red hematite, soft (developing).
**		The Swedish-American Iron Co., Duluth, Minn.—C. A. Smith, prest.; N. A. Linderberg, secy.; John Peterson, treas, and mgr.—Cap. stk. \$2,000,000.—(Developing.)
Morse St. I (Not a P.O.) Ry.El		Central Vermillion Iron Co., St. Paul, Minn. Albert Scheffer, prest.; C. W. Cox, secy. and mgr.; Edward J. Hodgson, treas. Cap. stk. \$800,000. Central Vermillion. Shaft, 70,000 tons; steam.

St. Louis Nebewa Iron Co., Duluth, Minn., 115 and 117 E. Superior st. Christian H. Oppel, prest., mgr. and supt.; Herman H. Oppel, seey, and treas. Cap. stk. \$2,000,000. Nebewa, hard ore. Shatt and finnel (developing).

Tower.... Ry, 230,

MANGANESE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

Town

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Wright J. N. Stacy & Co. J. N. Stacy, prest, and mgr.; Arthur S. Stacy, secy, and treas. Cap. \$5,000. Monticello, black oxide of manganese. Open pit (developing). Monticello Ry, 293.

#### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF QUARALWAYS, WAAAND SHIPPIT	RRY, TER ROUTES NO POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENY.
TOWN AND	COUNTY.	
Duluth Ry, 386.	St. Louis	Duluth Brown Stone Co., Room 7 Exchange Bidg. John II. Crowley, prest, and mgr.; W. W. Davis, seey, and treas. Cap. 818, 880,000. Sandstone, open pit, 17,500 tons; horse. Peter Chelbred, supt. Quarry in Bonglas county, Wis.,
Jasper Ry, 87, 293,	Pipe Stone 143.	Sioux Valley Stone Co. J. M. Poorbaugh, prest, and mgr.; J. M. Bickel, seey.; C. L. Joy, freas. Cap. stk. \$1,000,000, Jasper, Pipestone, Garresson and Baydeld Quarries, gray granife, Slopes, 40,000 tons; steam; polisher and ernsher. C. W. Doaslaugh, supt.
Kasota . Ry, 143, 150		C. W. Babeock & Co. Cap. \$75,000. Kasota, pink limestone. 35,000 tons; mill.
**	**	Matt, Breen Stone Works, St. Paul, Minn., 64 and 65 Germania Life Ins, Bldg. Thos, M. Breen, propr., Cap, \$60,000. Kasota, limestone. Open pit, 30,000 tons; steam; mill. David O. Alexander, supt.
Little Falls Ry, 529,	Morrison	Fordls Averill, Little Falls Granite Quarry, granite. Horse; mill,
N. Sioux Falls Ry, 87, 134.	Pipe Stone	North Sioux Falls Stone Co., Sloux Falls, S. Dak., Mulhall Blk. T. B. McMartin, prest.; W. G. McKennan, seev., Ireas, and mgr. Cap. stk. \$100,000. North Sioux Falls Stone Quarry, Jasper. Open pit; steam. E. H. Gates, supt.
	**	Northern Stone Co., Chicago, Ill., 505 Chamber of Commerce Bldg. Wm. F. Reynolds, prest.; Lewis Reynolds, seey.; Chas. Reiterman, treas. Cap. stk. \$80,000. Northern, jasper stone. Open pit and slope, 80,000 time; Steam.
Ortonville Ry. 141.	Big Stone	James Baxter & Son, Minneapolis, Minn., 2845 Aldrich av. S. Cap. \$50,000. Ortonville Red Granite Quarry, red granite. Stope, 10,000 tons; steam; mill.
Pipe Stone Ry, 87, 141,	Pipe Stone 143, 293.	Pipe Stone Quarry Co. L. H. Moore, prest.; H. E. Corbett, seey, and treas.; L. Moore, mgr. Stone. Open pit, hand and horse.
Red Stone P. O. and Um 150.	. Nicollet Ry. New	New Um Stone Co. Otto Shell, seey.; Jacob Pfenninger, treas., Werner Bosch, mgr. Cap. stk. \$10,000, Red Stone Quarry, granite. Open pit. 800 tons., hand, Christ Holzenberg, supt.
St, Cloud Ry, 293, 529		Anderson & Co., John Anderson, prest., Emil Borwig, secy., Louis Hundstad, treas.; Bent Borwig, mgr. Cap. stk. \$8,000; Indv. cap. \$3,000. Gray granite. 4,000 tons; horse.
	**	Drake Co., 8t. Paul, Minn., 359 Drake Block. Drake's, red granite. Open pit; steam and horse; mill.
**	**	A. Guslafson. Graulte. Open pit; horse.
**	0	G. J. Hilder, P. O. Box 1001. Cap. 85,000. Granite. Open pit, 8,000 tons: steam, horse,
		Holes Bros. Cap. \$7,500. Red Block Granite Quarry, red granite. Open pit, horse.
		Matt. Breen Stone Works, St. Paul, Minn., 64 and 65 Germania Life Ins., Bldg. Thomas M. Breen, propr.

Matt, Breen Stone Works, St. Paul, Munr, 64 and 63 Germania Life Ins. Bidg. Thomas M. Breen, propr. Cap. 850,000. St. Cloud, granite. Open pit, 30,000 tons, steam, mill. John Clark, supt.

" Minnesota Granite & Polishing Co., Minneapolis, Minn., 535 Boston Block, Cap. 825,000. Granite, Steam; mill.

Minnesota State Reformatory, D. E. Myers, supt. Minnesota State Reformatory Quarry, red and gray granite.
 St. Cloud Granite Co., 507 Nineteenth av. N. Daniel Fearon, seey.: Samuel T. Boyle, treas. Cap. 8th, \$7,000. St. Cloud Granite Co.'s Quarry, pink granite. Open pit, stope, 500 tons, horse.

Smedes Forest Redwood Rock Valley Granite Co., Minneapolis, Minn., 21 Chamber of Commerce Bidg. L. D. Welsh, mgr. Rock P. O. and Ry, Belyiew Valley, granite, Open put, mill.

456.
Wasioja Dodge Wasioja Stone Co., Dodge Centre, Minn. Frank A. Day, prest , W. B. Parsons, seey, and treas.; J. A. Ry, 134. Green, mgr. (ap. sik. 850,000). Limestone. Slope, 10,000 tons; horse, G. W. Harler, supt.

SEE ALSO SUPPLEMENTARY LIST

# MISSISSIPPI

#### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINL
OR QUARRY.
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.
TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STOCK, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,00 POUNDS, KIND OF FOWER UNED, STONE OR MARBLE MILLS, LIMEKLINS AND
CAPACITY, ETC., AND NAME OF MINE SUFFRINTENDENT.

Vicksburg Warren Gunning Gravel Paving Co. J. H. Gunning, prest. Geo. H. Rigby, seey, and treas.: Jos. P. Roach, v.-prest. Ry, 406, 458, 533. Cap. 848, 8100,000. Gunning, gravel. Open pit; steam and hand (developing).

# MISSOURI

### BARYTES

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FERRANCE, ETC., AND NAME OF MINE SUFFRINTEMENT.

AND COUNTY.

Blackwell , St. François Hawkins & McGready, Cap. \$10,000. Barytes, Ry, 714.

Osage City...... Ry, 461.

... Cole R. M. Marshall, Tuscumbia, Mo. Barytes. Slope, 2,000 tons; hand.

Spring Garden,... Miller E. A. Becker, Barytes, Open pit, 2,500 tons; horse; hand, T. Gaither, supt. Ry, 400.

#### COAL-BITUMINOUS

Location of Mine, Railways, Water Routes and Shipping Point.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL DUTEUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUFFERINMENDEN.
TOWN AND COUNTY.	
Amoret Bates Ry, 352.	Blue Lick Coal Mining Co., Kansas City, Mo., 5 Bunker Bldg. Cap, \$1,000. Crescent, Oak Ridge. Slope, open pit, 60,000 tons; horse. George W. Bozzell, supt.
** **	Hocker Co. Brayton. Open pit, 1,700 tons; horse, steam. 1, B. S. Dunn, supt.
Arcadialron Ry, 460.	S. E. Marshall (local). Cap. \$200. Peacock coal. Open pit; hand.
Arrow Rock Saline Ry, 461,	Frank Alexander (local). Flat Creek. Open pit, 200 tons.
Arthur , Vernon Ry, 460,	Frank Williams & Co. Cap. \$8,000. Arthur. Open pit. drift, 11,000 tons; horse. Frank Williams, supt.
Auliville. La Fayette Ry, 460,	E. P. Crumply, Cap. \$1,000 (local). Aullville, Slope, 240 tons; hand,
b+	S. J. Fitzgeral, Cap. \$1,000. Slope, 300 tons; horse,
Bevier Macon Ry, 305,	Bevier Black Diamond Coal Co. W. H. Loomis, prest, and seey.; W. S. Watson, treas, and mgr. Cap. stk. \$100,000. Bevier Black Diamond. Shaft, 9,500 tons; steam. L. Bradford, supt.
**	Loomis Coal Co., W. H. Loomis, prest, and mgr.; L. J. Loomis, secy, and treas, Cap. stk. \$500,000. Shaft, 200,000 tons; steam. Thomas Francis, supt.
	Oakdale Coal & Mining Co., St. Joseph, Mo., 108 S. Seventh st. J. W. Atwill, prest., treas, and mgr.; C. F. Atwill, secy. Cap. stk, \$15,000. Oakdale. Shaft, 51,550 tons; steam. J. D. Collins, snpt.
**	Wafson Coal Mining Co. W. S. Watson, prest, and treas.; E. F. Bennett, secy.; J. W. Wafson, mgr. and supt. Cap. stk. \$25,000. Wafson. Shaft, 36,000 tons; steam.
Birch City Bates (P.O.Amoret) Ry,352.	Bates County Coöperative Coal Co., Amoret, Mo. N. Wallace, prest.; S. P. Demming, secy.; J. C. Rankin, treas. Cap. stk. \$10,000. Birch City. Shaft, 30,000 tons; steam. W. H. Grischele, supt.
Blackbird Putnam Ry. Unionville 133.	Blackbird Coal Co. C. W. Lane, prest.; Geo, W. Jordan, seey, and treas.; Wm. Love, mgr. and supt. Cap. stk, \$20,000. Shaft, 8,400 tons; steam.
Boonville Cooper Ry, 459, 460.	Missouri Valley Coal & Mining Co. C. E. Andrews, prest.; C. J. Burger, secy., treas, and mgr. Cap. stk, \$250,000. Missouri Valley. Shaft, 8,000 tons; steam. J. Rlch, supt.
Ry. 460.	Ephraim Stukey (local). Open pit, 60 tons; hand, horse,
Bronaugh Vernon Ry, 460,	J. C. Lucas, Cap. \$2,000. Vernon. Open pit, 3,500 tons; horse, hand. L. M. Lucas, supt.
Ry. 305.	Bernard Schaefer (local), Cap. \$1,200. Schaefer, 4,515 tons; horse,
Brownington Plenry Ry, 353,	Dunlap Coal Co. K. P. Dunlap, secy. Shaft, open, 350,000 tons; horse. John White, supt.
Brown's Station Boone Ry, 784.	Isaac R. Davy (local). Open pit, 160 tons; hand.
Brush Hill . Johnson (P. O. Dunksburg) Ry. La Monte 460.	George W. Strickland (local). Tunnel, 102 tons; hand.
Bunceton . Copper Ry, 460,	A, Palmberg (local), Cap, \$10,000. Stephens. Shaft, 3,000 tons; horse,
Calhoun	Gedney. Shaft, 50,000 tons; steam. John Cohal, supt.
Camden Ray Ry, 26, 784.	Boyard-Brown Coal Co., Kansas City, Mo., 214 Grand av. Benjamin Lusk, prest, and treas, J. Q. Brown, seey.; Geo. H. Lockwood, mgr. Cap. 8tk, \$18,000. No. 3, Shaft, 1,500 tons; steam, W. H. Teegardin, supt.
**	William Hensley (local). Cap. \$500. Craven. Shaft, 500 tons; steam.
	Richmond Coal Co., Richmond, Mo. J. S. Hughes, prest.; H. M. Hughes, secy.; G. A. Hughes, treas. Cap. stk, \$100,000. Camden. Shaft, 75,000 tons; steam. John Gibson, supt.

### COAL BITUMINOUS (CONTINUED)

	COAL BITUMINOUS (CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used,
TOWN AND COUNTY	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Carbon Center Vernon Ry, 348.	E. N. Hurst (local). Cap. \$4,500. Banyham. Open pit, 50 lons; hand. J. B. Salsman, supt.
	Salsman & Scott, Cap. \$1,000. Carbon. Open pit, 6,000 tons; hand. J. B. Salsman, supt.
CedarvilleDade Ry, Golden City 348,	William Brown (local). Cap. \$1,600. Shoemaker. Slope, open pit, 600 tons; hand.
CentraliaBoone Ry. 145, 784.	Heury Oldham. Scullick. Shaft, 500 tons; horse,
Clinton	Wiley & Sons closal . Shaft, 400 tons; horse. Frank Wiley, supt.
Ry, 348, 353, 459.	
Coatsville Schuyler Ry, 784.	W. F. James, P. O. Box 775. Cap. \$10,000. Slope. C. C. Cox, supt.
Columbia "Boone Ry, 784.	A. Mock & Bros. clocal). Cap. 8200. Tunnel, 320 tons. hand. B. S. Benefiel (local). Slope, 4,200 tons; hand, horse.
**	James W. Gaither, Cap. \$1,000. Drift, open plt, 500 tons; hand.
	W. A. Gooddling (local). Cap. \$1,600. Shaft, 4,800 tons, horse. Enoch Morgan, supt. D. W. B. Kurtz (local). Slope, 800 tons, horse.
Concordia. La Fayette	
Ry, 460. Corder La Fayette Ry, 145.	Corder Coal & Coke Co. P. M. Gaw, prest.; H. G. smith, seey., mgr. and supt., A. E. Alsbury, treas, Cap. 8tk, \$5,000. Corder. Shaft, 36,000 fons. steam.
Cretcher Saline Ry, Marshall 145,	Esther Pittman (local). Slope; hand.
0 0	A. Van Buskirk (local). Tunnel,
Danforth Adair Ry, 613,	Pennsylvania Coal Co., Kirksville, Mo. H. C. McCahan, mgr. Danforth. Shaft, 10,000 tons; steam. John Dawson, snpt.
Deepwater Henry Ry. 348.	
**	A. W. Hurst, Cap. \$2,000. Cooper Creek. Slope, shaft, 3,600 tons.
	Keith & Perry Coal Co., Kansas City, Mo., 206 Walnut st. R. H. Keith, prest.; E. E. Riley, seey.; David Mackle sr., treas, and supt.; John Perry, vprest, and mgr. Cap. stk. \$800,000. Shaffs, 150,000 tons; steam.
DoverLa Fayette Ry, 460. Dunksburg Pettis	\$100,000. Dover, Drift, 20,009 tons; hand.
Ry, La Monte 460,	Thomas Scaram (local). Open pit, 200 tons; hand.
15y, 460.	C. B. Burnham (local), St. Lonis, Mo., 620 North 82cond st. Eldon. Slope, 13s tons; horse. Louis Rusk, supt.
Elko . Putnam Ry, Unionville 133,	Martin Pherigo (local), Tunnel, 82 tons; hand.
Elston . Cole Ry, 460.	George II, Leach, Cap. \$1,500. Elston. Shaft, 2,000 tons; horse,
EsromBarton Ry. Lamar 348, 460.	O. C. Blacker (local.) Open, 550 tons; horse,
Foster Bates Ry, 460,	A. Skillman. Open pit, 7,590 tons, horse and hand.
**	Western Coal & Mining Co., St. Louis, Mo., Sixth and Locust sts. Edwin Goald, prest.; D. S. H. Smith, seey, and trens., R. M. McDowell, v-prest, and gen. mgr. Cap. stk. 84,00,000, No. 3. Shaft, slope, 150,000 tons; steam, W. B. Williams, supt.
Fulton Callaway Ry, 145,	Wm, Castle (local). Cap. \$1,000. Slope, 1,000 tons; hand.
**	A. Harris & Co. Cap. \$1,000. Crews. Shuft, 4,272 tons, horse,
44	John Harris, Cap. \$1,000, Shaft, 20,000 tons; horse,
	A. Holmes (local), Cap. \$300, Tunnel, 2,000 tons, Samuel Maycock (local), Cap. \$200, Carbon Valley, Drift, 4,000 tons, horse,
74 64	James Smith. Cap. \$15,000. Tunnel, 4,000 tons; horse,
Guthrie . Callaway Ry, 145,	R. M. Henderson (local). Criswell. Tunnel, 60 tons; hand.
	Caldwell Coal Co., E. B. Hayden, prest.; C. A. Dedrick, seey, and treas., Wm. Hall, mgr. and supt. Cap. stk, \$50,000. Caldwell. Shaft, 24,000 tons: steam.
· · · ·	Hamilton Coal Co. R. S. Cash, prest., Ralph Booth, seey.; John N. Morton, treas. Cap. stk. \$25,000. Tom Creek. Shaft, 48,000 tons; steam. Joseph McCourt, supt.
Hardin Ray Ry, 26, 784.	Fred Buchlinger (local). Kellenburger. Tunnel, ss tons; hand,
84 (1	11. A. Mindreyer P. S. van Arresta, N. van Arresta, and A. Van Arr

" H. A. Dickson & Son (local). Northern, Shaft, 10,900 tons, horse,

# COAL-BITUMINOUS (CONTINUED)

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Core Ovens, and Name of Mine Superintendent.
TOWN AND COUNTY.	
HardinRay	Joseph Huston (local). Hardin. Drift, 261 tons; hand.
**	William Phillips (local). Dritt, 452 tons; hand.
Harrisburg Boone Ry, Sturgeon 784.	T. H. Blakeman (local). Open pit, 120 tons; hand.
Higbee Randolph Ry. 145, 459.	Higbee Coal & Mining Co. A. J. Lessley, prest.; S. Lessley, secy, and treas.; Wm. Walton, mgr. and su Cap. stk. \$50,000. Higbee. Shaft, 51,600 tons; steam.
*	Interstate Mining Co., John S. Elliott, prest.; Wm. Walton, seey, and supt.; John Cosgrove, tre Cap. stk. \$50,000. Interstate. Shaft, 100,000 tons; steam.
Higginsville. La Fayetto Ry, 145, 460.	Matthew Breckenridge, supt.
44	Excelsior Coal & Coke Co. S. B. Whiting, prest.; A. E. Asbury, seey, and treas.; J. H. Campbell, m and supt. Cap. stk. \$5,000. Excelsior. Shaft, 15,240 tons; steam.
* * * * * * * * * * * * * * * * * *	Hagood Coal Co. J. B. Hagood, prest.; J. E. Gunn, mgr. Cap. stk. \$1,800. Hagood. Shaft, 6,000 to horse. James Gilkey. supt.
	Hawkins & Smith. Cap. \$3,500. Shaft, 4,000 tons; horse. John Hughes, supt.
	E. Huffman (local). Slope, 900 tons; hand,
"	Stealy & Fowler Coal Co. Shaft, 20,000 tons; horse,
**	J. E. Wilks. Cap. \$3,000. Hawkins. Shaft, 4,000 tons; horse, John Hughes, supt.
**	Winsor Coal Co., Lexington, Mo., 109 Main st. Cap. \$30,000. Winsor. Shaft, 25,000 tons; steam. H. Winsor, mgr. and supt.
Ry. 348, 352.	E. H. Thurman (local). Open pit, 2,200 tons; horse,
Ry. 784.	J. S. Burk (local). Slope; horse,
** **	E. Edwards (local). Drift; hand.
	T. M. Elmore, Cap. \$7,000. Shaft, 20,000 tons; steam,
** .	John Lowes, Tunnel, 1,395 tons; hand,
. **	Randolph County Coal Co. John Breckenridge, propr. Cap. stk, \$30,000. Randolph. Shaft, drift, 100 tons; steam. J. W. Pattimore, supt.
"	James B, Reach. West End. Slope, 455 tons. J. W. T. Rucker, supt.
	Woodard Coal & Mining Co. G. H. Shields, prest.; E. J. Bedford, mgr, and supt. Cap. stk. \$50,000. Wooda Shaft; steam.
Jerico	John S, Cole (local), Cap. \$1,000. Drift, 1,000 tons; hand.  A. B. Davis (local). Tunnel, 150 tons; hand.
Kansas City Jackson Ry. 26, 145, 141, 142, 305, 348, 351, 352, 353, 354.	
355, 460, 461, 776, 784. KirksvilleAdair Ry, 613, 784.	D. C. Scott (local). Hazel Creek. Shaft, 900 tons; horse.
Knobnoster Johnson Ry. 460.	Thomas H. Boyd & Sons. Cap. \$10,000. Shaft, 7,000 tons; steam.
	John F. House, Cap. \$5,000. Boise Clearfork, Slope, 200 tons; horse,
Laddonia Audrain Ry, 145.	C. P. Easthom (local). Shaft, 75 tons; horse,
" "	Owen Lynch (local). Shaft, 160 tons; horse,
Lamar	
**	George Glaze (local). Open pit; horse, hand.
44 5*	Kimball & Geivett (local). Open pit, 200 tons.
**	Basil D. Hays (local). Cap. \$200. Tunnel, 80 tons; horse.
**	O. Peterson (local). Drift, open pit, 50 tons; horse.
16	M. M. Spear (local). Open pit, 450 tons; horse, hand,
44	Mattie B. Spring (local). Tunnel, open pit, 30 tons; hand.
"	J. C. Sturdevant, Cap. \$6,000. Open pit, 250 tons; horse, hand.
Lewis Station . Henry Ry, 459.	stk, \$10,000. Coöperative. Shaft, 20,000 tons; steam. J. A. Johnson, supt.
	D. B. Pigg Coal & Mining Co. Cap. stk. \$5,000. Drift, 5,000 tons; hand.
	Tebo Coal Co., W. C. Bronaugh, prest; John Bowen, secy.; F. W. Bronaugh, treas.; R. Bowen, mgr. supt. Cap. stk, \$5,000. Shaft, 15,000 tons; steam.
Lexington. La Fayette Ry. 26, 460.	P. Bell & Greer, Cap. \$10,000. Tunnel, 4,000 (ons; hand, W. H. Greer, supt.
	Thomas Clark (local). Cap. \$2,000. Clark. Drift, 1,800 tons; hand. Thomas Kelley, supt.

### COAL-BITUMINOUS (CONTINUED)

			COAL BITC MINOUS COMMEN
RAILWAY	TION OF	R ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Wasgers, Core Overs, and Name of Mine Superintendent.
Town	AND	COUNTY.	
Lexingto	n. I <i>Ontinue</i>	aFayette d.)	Kelley Coal Co. (local). Slope, 500 tons; horse. F. G. Kelley, supt.
**		. "	Joe Kist (local). Kist. Tunnel, 1,000 tons; hand,
		**	Lexington Coal Mining Co., St. Louis, Mo., Equitable Bdg. Edwin Gould, prest.; D. S. H. Smith, seey, and tress.; R. M. Melbowell, ngr. Cap., 8tk, \$100,000, Melbowell, Riverton and 4 others. Shaft, drift, 150,000 tons; steam, horse, hand. M. W. Serat, supt.
			J. C. McGrew, Cap. \$100,000. Drift, shaft, 20,000 tons; steam. Wm. Parks, supt. Henry Maccy, Kansas City, Mo., 1619 Baltimore av. Cap. \$20,000. Tunnel, 17,500 tons; hand, Joseph
+4			Perry, states, vanesa vivy, and, role bandmore av. Cap. 850,000. Tunner, 17,000 tons; nand. Joseph Perry, supt.  Missouri River Coal Mining Co. J. B. Silver, prest., treas., mgr, and supt. Cap. 8tk, \$00,000. Silver mine.
			Shaft, 1,000 fons; steam,
**		**	Morrison Bros. (local). Cap. \$1,000. Drift, 3,500 tons.
Liberal	48, 460.	Barton	Thomas Walton, Cap. \$3,000. Walton, Drift, 4,000 tons; hand, Samuel Spruce, supt.  Liberal Coal Co., J. G. Todd, prest, mgr, and supt.; J. H. Todd, seey.; Wm. D. Thompson, treas. Cap.  stk. \$15,000; indv. cap. \$1,000. Liberal. Tunnel, 12,000 tons; horse.
.,	41.5 4		M. H. Lucas (local). Drift, so tons; hand,
**			H. J. Whitesell. Cap. \$20,000. Open pit, 15,000 tons.
Lingo Ry, 3	D5.	.Macon	Little Pittsburg Coal Co., Kansas City, Mo., New York Life Bldg. U. D. French, prest.; J. H. Owens, seey, and treas. Cap. stk. \$00,000. Shaft. A. G. French, supt.
McCredio Ry. 1-	45.	Callaway	J. S. Henderson (local). Henderson. Shaft, 100 tons; horse, Philip Reynolds, supt.
			Reynolds & Allen (local). Shaft, 400 tons; horse.
Mayylew Ry. 1-	. L i5.	a Fayette	Mayylew Coal Co. Cap. stk. \$6,000. Strasburg. Shaft, 5,000 tons, steam, T. C. Wilson, mgr. and supt.
Mendota Ry, 1		Putnam	Mendota Coal & Mining Co. F. H. Ketelmin, prest; H. B. Scott, secy, and treas. Cap, 8tk, \$100,000. Mendota, Slope, 150,000 fons, steam. B. H. Johnson, supt.
		**	Pearl Coal & Mining Co., St. Joseph, Mo., 1101 Frederick av. Cap. stk. \$5,000 Pearl. Shaft, 10,000 tons; horse. Howell Price, mgr. and supt.
Milan. Ry. 1	35, 613.	Sullivan	Milan Land & Coal Muntig Co. E. Ritze, prest.; George F. Collins, secy., John S. Poole, treas. Cap. 8tk. \$15,000. Milan. Shaft, 15,000 tons; steam. Damel Ruckman, supt.
	amar 34	18, 460.	J. W. Dixon. Dixon. Tunnel, 300 tons, hand, horse.
**		**	W. H. Perry (local). Tunnel; hand.
***			G. G. Ryan clocal . Tunnel; hand.
Milo Ry, 40	60,		W. T. & B. E. Ferry (local). Open pit, 3,000 tons., horse. B. E. Ferry, supt.
Minden 2 Ry, 3	Mines 48, 460.		Wear Coal Co., Topeka, Kan., 410 W. Sixth St. T. E. Wear, prest.; T. G. Wear, vprest.; N. S. Wear, seey. Cap. 8tk. \$50,000. No. 1. Shafts, 90,000 tons; steam. A. B. Kirkwood, supt.
			Western Coat & Maning Co., 8t. Louis, Mo., Syath and Locats 4st. Edwin Gould, prest., D. 8, 4f. Smith, seey, and treas; R. M. McDowell, vprest, and gen. mgr. Cap. 8tk. 81,000,000. Minden, Nos. 1 and 4. Shaft, slope, 12,000 (obs; steam. Josanh Lame, supt.
Moundyi Ry. 40	He 30,	. Vernon	John Brown. Open pit, 1,604 tons.
		**	J. M. Devore & Co. Cap. stk. \$1,500. Shaft, 100 tons. horse, J. M. Devore, supt.
**		4+	John Moore (local). Moore. Open pit, 200 tons; hand.
Mr. Com	LOI.	t udením	W. T. Powell (local). Powell, Shaft; horse,
Mt. Carn Ry. V Napoleor	andalia	145.	O. J. Detienne (local). Shaff, 400 tons; horse,  Nandhou Cont. S. Mising Co., T. I. Williamson and J. J. Calendres, J. H. Doffenhale, page Con-
Ry. 40	60,	a Fayette	Napoleon Coal & Mining Co. T. L. Williamson, prest.; S. Gates, treas.; J. H. Duffendack, mgr. Cap. stk. \$8,000. Gates. Shaft, 12,800 tons; horse.
Nåshville Ry, O Norborne	polis, K	am. 720.	John C. Ferguson. Open pit, 105 tons; horse. Fred Ferguson, supt.  Hartwel Arnold S. Co. clouds. Con. etc. Fred Ferguson. Phylolidal Arnold S. Co. clouds. Con. etc. Fred Ferguson.
Ry, 20 North	6, 784.	Henry	Hartwel, Arnold & Co. (local). Cap. 8tk. 850,000. Rushville. Slope, 5,000 tons; hand. J. W. Turner, and supt. Woodle & North Conf. Co. France, Cit. Mod. Translated, J. and Problems, M. C. Woodle, and J. W. S.
Ry. 459.	Clinton	348, 353,	Woods, & North Coal Co., Kansas City, Mo., Twentieth st, and Lydia ay. M. G. Manley, prest.; W. S. Woods, seey, and mgr.; F. J. Tygard, treas. Cap. 8tk, \$125,000. Jordan. Shaft, steam. Roland Thomas, supt.
	48, 353,	St. Clair	William Watkins (local), Johnson, Slope, 18 tons; hand,
	turgeon	1784.	J. W. Stone (local). Open plt, 50 tons,
	New Lo	Ralls udon 719,	E. S. Boulware (local). Open pit, 280 tons; hand.
		. "	J. S. Evans (local). Tunnel, open pit; horse, hand, John Russell (local). Russell. Open pit, 240 tons; hand.
Persia (P.O.	Harris	Boone burg Ry.	W. A. Stidham (local). Slope, 200 tons; hand,
Still	rgeon 7:	74.	

# COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNOLO OUTPUT IN TORS OF 2,000 FOUNDS, KIND OF FOWER USED, COAL BEAGERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPERINTEMBERS.
TOWN AND COUNTY.	Construction, Francisco, Const Cristo, And Marine Construction
Persinger Boone (P.O.Columbia) Ry.784,	Columbia Coal Mining Co., Columbia, Mo. A. Rees, prest.; M. W. Rees, secy, and treas. Cap. stk, \$10,00 Persinger. Shaft, 12,000 tons; horse. T. Rees, supt.
Quitman Nodaway Ry, 354.	R. Harris, Cap. \$5,000. Shaft, 175 tons; horse,
	W. R. Holt and others. Slope, tunnel; horse, hand.
**	Kessinger Co. Cap. stk. \$5,000. Farmer. Shaft, 1,200 tons; horse.
**	G. W. Nelson (local). Collins. Slope, 160 tons.
	Nicholas Bros. (local). Shaft, 1,200 tons; horse,
	Pearson Bros. Cap. \$1,000. Pearson. Slope, 1,000 tons; hand.  N. Roberts. Quitman. Shaft; horse,
Randolph Clay Ry, 141, 305, 784.	Randolph Coal & Gas Co., Kansas City, Mo., Seventh and Wyandotte sts. E. L. Martin, prest.; Oliver C Hutchinson, seey, and mgr.; M. B. Wright, treas. Cap. stk, \$200,000. Randolph. Shaft, 52,500 tons steam: hand. Morgan Meredith supt.
Renick Randolph Ry, 784,	Renick Coal Co. S. M. Forrest, prest, J. A. Maxwell, secy.; J. R. Miles, treas.; E. L. Hubbard, mg and supt. Cap. 8tk, \$10,000. Renick. Shaft, 5,500 tons; steam, hand.
Rich Hill Bates Ry, 348, 460.	R. E. Allen, Cap. \$3,000. Slope, 4,670 tons; hand.
11	Wallace Bruce. Cap, \$10,000. Slope, 20,000 fons; horse,  Kaith v. Parmy Conf. Ca., Kan yas Cify, Ma. 100 Wallack J. P. H. Kaith, area t., E. E. Bilon, area a David
	Keith & Perry Coal Co., Kansas City, Mo., 907 Walnut St. R. H. Keith, prest.; E. E. Riley, seey.; Davi Mackle Sr., treas, and supt.; John Perry, vprest, and mgr. Cap. 8tk, 8800,000. Shafts, 150,000 four steam.
11	Rich Hill Coal Mining Co., St. Louis, Mo., Sixth and Lecust sts. Edwin Gould, prest.; D. S. H. Smith seey, and treas.; R. M. Melbowell, vprest, and gen, mgr. Cap. stk. \$50,000, Rich Hill. Shaft, drift 550,000 tons; steam. Joseph T. Reavley, supt.
** **	J. M. Seawell & Co., Kansas City, Mo., Eighth and Wyandotte sts. J. M. Seawell, prest, and mgr.; Mallen, seey, and treas. Cap. stk, \$20,000. McComb. Open pit, 12,000 tons; hand. S. M. Talbot, sup
Richmond Ray Ry. 26.	Darmeal Coal Co. Cap. \$15,000. No. 10. Shaft, 24,000 tons; horse. John W. Hubbell, supt.
" "	William Peuce, Cap. \$800. Black Diamond. Shaft, 2,400 tons; horse,
	A. F. Rankin & Co., Cap. stk. \$5,000. Slope, H.520 tons; horse.
	Richmond Coal Co. J. S. Hughes, prest.; H. M. Hansen, secy.; G. A. Hughes, treas. Cap. stk. \$100,000 Richmond. Shaft, 75,000 tons; steam. John Gibson, supt.
Sedalia Pettis Ry, 459, 460.	Sedalla Mining & Prospecting Co. Room 27 Dempsey Bldg. J. G. White, prest.; Jonathan Myers, seey F. W. Shultz, treas.; G. M. Babcock, mgr. and supt. Cap. srk. \$50,000. Bushy Valley. Shaft, slop 2,000 tons; steam.
Sheldon Vernon Ry. 460.	W. G. Gonterman (local). Little Black Diamond. Slope, 320 tons; horse.
Slater Saline Ry, 145.	1saac Breggs (local). Cap. \$750. Slope, 200 tons; hand. Robert Murphy, supt.
64 69	Wm. 8, Hedger (local). Open pit, 200 tons; hand.
**	Barney Hunter, Slope, 40 tons; band,
Stahl Adair	R. P. Thompson (local). Cap. \$2.500. Slope, 160 tons; hand. Harriott Bros. (local). Drift; hand,
Ry. 613.	That bross (total). 1744, many
**	Jacob Ledford, Cap. \$500. Drift, 900 tons; hand.
Stephens' Store, Callaway Ry, Columbia 784.	W. M. Guy (local). Shaft, 250 tons; horse.
**	William Oldham. Shaft, 240 tons; horse,
Swanwick Ray Ry, 26.	Williams Coal Co., St. Joseph, Mo., cor. Sixth and Angilique sts. R. J. Williams, prest., mgr. and supt John A. Ross, seey, and treas. Cap. stk. \$5,000. Swanwick. Shaft, 10,000 tons; horse.
Ry, 460.	H, H, Marmaduke. Cap. \$1,500. Shaft, 4,000 tons; horse. Sherman Hersley, supt.
Sylvania	A. Leonard (local). McGarvey. Slope, 6,600 tons; horse.
	Robert McCluey (local). McCluey, Setons. Slope, tunnel, 800 tons; horse, hand. R. W. Sharp (local). Star. Slope, 600 tons; horse.
Thomas Hill Randolph Ry, Clifton Hill 784.	Joseph Milburn & Sons. Cap. stk. \$2,000. Milburn. Shaft, 760 tons; horse,
Vandalia . Audrain R. 145.	Vandalia ('oal Co. William Bevan, prest; W. R. Williams, seey.; R. W. Fryar, treas.; D. L. Stacy, mg and supt. Cap. 8tk, \$15,000. Shaft, 30,000 tons; steam.
	Vandalla Fire Brick Co. S. D. Ely, prest.; J. F. Cooniz, secy.; C. G. Daniels, treas. Cap. stk. \$10,00 Shaft, 5,000 tons; Steam. John Hobotson, mgr. and supt.
Verdella Barton Ry Liberal, 348, 460	William Jones (local). Open pit, 800 tons.
Versailles Morgan Ry 460	Davidson & Neilson (local). Slover. Tunnel. A. F. Davidson, supt.

Samuel Martin (local). Martin. Shaft, 200 tons; steam

#### COAL-BITUMINOUS (CONTINUED)

Location of Mine, Railways, Water Routes and Shippino Point. Town and County.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Power Used, Coal Breakers, Washers, Core Ovens, and Name of Mine Superintendent.
Vietor Monroe Ry, Mexico 145, 784.	L. Hughes (local). Cap. \$6,000. Open pit, 1,000 tons.
Vista 8t. Clair Ry. 34s.	G. A. Vannice, Vista, Slope, 1,200 tons; horse,
Walker Vernon Ry, 459.	C. B. Crawford. Cap. \$4,000. Open pit, 800 tens; horse,
0 0	Hunter Bros. (local). Open pit, 160 tons.
0	W. H. Prewitt (local). Open pit, 150 fons; horse, hand.
Warrensburg Johnson Ry, 460.	D. A. Bullock (local). Slope, 1,000 tons, hand.
	A. W. MacRae. Slope, 1,800 tons; hand.
	M. B. Meily local). Cap. \$1,000. Meily. Slope, 1,600 tons; hand. Henry Allen, supt.
44	Warrensburg Electric Street Co. Slope, 2,000 tons; hand, A. S. Kenyon, supt.
14.	Benjamin F. Wood. Slope, 1,500 tons; hand.
Waverly La Fayette Ry, 460.	Waverly Coal & Mining Co. James Grant, prest., J. H. Croswhite, seey, and treas., F. E. Downs, mgr. Cap. stk. \$5,000. Shaft; steam (developing).
Wellington La Fayette Ry, 460,	Andrew Carter Jocal), Cap. \$2,500.   Drift, 560 tons
** **	Wellington Coal Co. M. V. L. Met lelland, prest, and mgr.; J. J. Andrew, seey, and treas. Cap. stk 8100,000. Shaft, 5,000 tons; steam, horse. M. V. L. Met lelland, supt.
Wellsville Montgomery Ry, 784.	Henry Whitehead Tocal). Shaft, 30 (tons; horse.
Windsor Henry Ry, 459,	J. W. Shook (local). Hines. Shaft, 240 tons, horse. Jesse Dodson, supt.
Woreester Audrain Ry, Mexico, 145, 784,	Robbins-Matthew (local), Cap. \$6,000. Ringo. Open pit, 280 for s. hand.
Worland Bates Ry, 352-460.	L. Baldwin docal). Cap. 850. Live Oak. Open pit, 800 tons, hand,
** ,	Kincald & Co., Pleasanton, Kan. Cap. 83,000. Kincald. Slope, open pit, 3,000 tons, horse. J. Johnson.

#### COPPER

F. A. Rancy (local). Rancy. Slope, 40 tons, horse,

Dry Branch   Franklin W. B. Shotwell, St. Clair, Mo. Copper Hollow, copper, iron. Tunnel, steam, Ry, 720.	LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF ORE, KIND OF MERE, ANNUAL OUTLET IN TONS OF 2,000 POUNDS, KIND OF POWER UNED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT
	Dry Branch Franklin V Ry, 720.	V. B. Shotwell, St. Clair, Mo. Copper Hollow, copper, iron. Tunnel. Steam.
EDEE CLAS'	-	FIRE CLAY
	LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER

Town and County. Tised, Etc., and Name of Superintendent.

Christy ...
Ry, 460. ...

Howell Christy Fire Clay Co., 8t. Louis, Mo., Laelede Bldg. C. M. Christy, prest., W. C. Morris, seey, and treas., J. B. Clements, mgr. Cap. stk. \$100,000. Christy, fire clay. Shaft, 25,000 tons; steam. Fred. Bayless, supl.

Fulton Callaway Fulton Fire Brick & Mining Co. S. Thrickeld, prest.; L. U. Nickell, seey., P. S. Adams, treas. Cap. stk. 875,000. Fire clay. Shaft, 25,000 tons; steam. David Jones, supt.

#### TRON

	INON
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPINO POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Blant Furnaces, Etc., and Name of Mine Suferintendent.
Condray	Midland Blast Furnace Co., St. Louis, Mo., 411 Olive St., W. H. Lee, prest., T. F. Furner, seey. Cap Stk. \$00,000, Hawkins, red hematife, blue specular. Open cut, tunnel, 8,149 tons, steam. T. H. Condray, sunt

Cuba | Crawford | Cuba fron & Paint Mining Co., 84, Louis, Mo., 420 Market st. F. W., Wessler, prest.: M. S. Barnell, seey, and treas, James A. Green, ingr. and supt. Cap., stk. 839300. Varis, Watros and others, blue specular, red bemattle. Open pit, band, horse.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

#### IRON (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POENDS, KIND

OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN AND	COUNTY.	
Pilot Knob. Ry. 714.	lron	St. Louis Ore & Steel Co., St. Louis, Mo., Fourth and Market sts. E. A. Hitchcock, prest, O. L. Garrison, seey, and treas,; George W. Craine, mgr. and supt. Cap. stk, \$3,500,000. Phot Knob, specular ore, shaft, tunnel; steam, compressed air; furnace.
St. James Ry, 720.	Phelps	E. W. James. Reed, red hematite. Open pit, 1,000 tons; hand. Henry Crawley, supt.
Salem Ry, 720,	Dent	A. C. & J. S. Causey, Cap. \$500. Causey, Shaft, 100 tons hand, A. C. Causey, supt.
**	••	Missouri Iron Co., St. Louis, Mo., 411 Olive st. H. A. Crawford, prest, and mgr.; Emerson L. Foote, secy, and treas. Simmons Mountain, red hematite. Slope; steam. E. B. Sankey, supt.
Stone Hill Ry, Salem 720	Dent	W. T. Daugherty. Steam; blast furnace. E. L. Foote, supt.
West Plains Ry, 348,	Howell	D. Carson Iron Co. Cap. \$5,000. Carson, brown hematite. Tunnel, open pit, 12,000 tons; horse. David Carson, supt.
Location of .		LEAD AND ZINC
LOCATION OF A	ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Output in Toks of 200 Pounds, Kind of
RAILWAYS, WATER	ROUTES	NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
RAILWAYS, WATER AND SHIPPING I	ROUTES POINT. COUNTY. Jasper	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Creek, Annual Outfut in Tons of 2001 Pounds, Kind of Power Used, Smelters, Etc., and Name of Mine Superintendent.
RAILWAYS, WATER AND SHIPPING I TOWN AND Alba Ry, Carthage	POINT. COUNTY. Jasper 460, 720.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Output in Tors of 2200 Pounds, Kind of Fower Used, Smellters, Etc., and Name of Mine Superintendent, Albu Co., Carthage, Mo. Geo, Dennison, prest; W. H. Bradley, vprest; Bartlett Palmer, treas.; W. H. Scamon, ingr., Cap. 8tk, Siddow, Albu, Icad, Zinc, Slope; steam, R. R. Alben, supt.
RAILWAYS, WATER AND SHIPPING I TOWN AND Alba Ry, Carthage Ash Grove	POINT. COUNTY. Jasper 460, 720.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of ore, Kind of Mine, annual Officer, Tons of 200 Pounds, Kind of Power Used, Smelters, Etc., and Name of Mine Superintendent.  Alba Co., Carthage, Mo. Geo, Dennison, prest.; W. H. Bradley, vprest.; Bartlett Palmer, treas.; W. H. Seamon, nigr., Cap. sik, \$100,000, Alba, lead, zinc., Slope; steam. R. R. Allen, supt.  Pennsylvania Mining Co., Charles, S., Green, prest.; D. P. Hobart, seey.; G. A. Tuisman, treas.; E. A. Hurt, nigr., and supt., Cap. sik, \$50,000. Pennsylvania, lead, zinc., Shaft, horse.
RAILWAYS, WATER AND SHIPPING I TOWN AND  Alba Ry, Carthage Ash Grove Ry, 348,	COUNTY. Jasper 460, 720. Greene	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Outfur in Tons of 200 Pounds, Kind of Power Used, Smelters, Etc., and Name of Mine Supremembert.  Alba Co., Carthage, Mo. Geo, Dennison, prest.; W. H. Bradley, vprest.; Bartlett Palmer, treas.; W. H. Seamon, mgr. Cap. 8th, 8100,000, Alba, lead, Zinc. Slope; steam. R. R. Allen, supt. Pennsylvania Mining Co., Charles S., Green, prest.; D. P. Hobart, seey.; G. A. Tuksman, treas.; E. A. Hurt, ngr. and supt. Cap. 8th, 850,000, Pennsylvania, lead, Zinc. Shaft, horse.
RAILWAYS, WATER AND SHIPPING TOWN AND Alba Ry, Carthage Ash Grove Ry, 348,	AROUTES POINT, COUNTY, Jasper 460, 720, Greene	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, annual Officer, Names of 200 Pounds, Kind of Power Used, Smelters, Etc., and Name of Mine Superintendent.  Alba Co., Carthage, Mo., Geo, Dennison, prest.; W. H. Bradley, v-prest.; Bartlett Palmer, treas.; W. H. Seamon, nigr., Cap. 8tk, 8100,000, Alba, lead, zinc. Slope; steam, R. R. Allen, supt.  Pennsylvania Mining Co., Charles S., Green, prest.; D. P. Hobart, seey.; G. A. Thisman, treas.; E. A. Hurt, nigr. and supt., Cap. 8tk, 850,000, Pennsylvania, lead, zinc. Shaft; horse.  Ash Grove Lead & Zinc Mining Co., St., Louis, Mo., cor. Eleventh and Walnut sts. Charles W. Goetz, prest. Cap. 8tk, 81,000, Lead, zinc. Shaft, 50 tons; band.
RAILWAYS, WATER AND SHIPPING 1 TOWN AND Alba Ry, Carthage Ash Grove Ry, 348,	AROUTES POINT, COUNTY, Jasper 460, 720, Greene	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kindof one Kindof Mine, annual Output in Tors of 2200 Pounds, Kindof Power Used, Smelters, Etc., and Name of Mine Superintendent.  Alba Co., Carthage, Mo. Geo, Dennison, prest; W. H. Bradley, vprest; Bartlett Palmer, treas.; W. H. Seamon, mgr. Cap. 8tk, Sidolog, Alba, lead, zinc. Slope; steam. R. R. Allen, supt.  Pennsylvania Mining Co., Charles S., Green, prest; D. P. Hobart, seey.; G. A. Tuisman, treas.; E. A. Hurt, mgr. and supt. Cap. 8tk, Salogo, Pennsylvania, lead, zinc. Shaft; horse, Ash Grove Lead & Zinc Mining Co., St. Louis, Mo., cor. Eleventh and Walnut sts. Charles W. Goetz, prest. Cap. 8tk, 812,000. Lead, zinc. Shaft, 30 tons; horse, North & Murray. Ash Grove, lead, zinc. 450 tons; horse, steam.
RAILWAYS, WATER AND SHIPPING I TOWN AND Alba Ry, Carthage Ash Grove Ry, 348,  """ Aurora L	ROUTES POINT. COUNTY. Jasper 460, 720. Greene	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Officer, Names of 2009 Pounds, Kind of Power Used, Smelters, Etc., and Name of Mine Superintendent.  Alba Co., Carthage, Mo. Geo, Dennison, prest.; W. H. Bradley, y-prest.; Bartlett Palmer, treas.; W. H. Seamon, mgr. Cap. stk, \$100,000, Alba, lead, zinc. Slope; Steam. R. R. Allen, supt.  Pennsylvania Mining Co., Charles S. Green, prest.; D. P. Hobart, seey.; G. A. Thisman, treas.; E. A. Hurt, ngr. and supt. Cap. stk, \$50,000, Pennsylvania, lead, zinc. Shaft, horse.  Ash Grove Lead & Zinc Mining Co., St. Louis, Mo., cor. Eleventh and Walnut sts. Charles W. Goetz, prest. Cap. stk, \$12,000, Lead, zinc. Shaft, 50 tons; hand.  Golden Eagle Mining Co., Golden Eagle, lead. 38 tons; horse, North & Murray. Ash Grove, lead, zinc. 150 tons; horse, steam.  Anchor Mining Co., Kansas City, Mo., cor. Seventh and Wyandotte sts. H. C. Lindsley, prest.; L. W.
EAILWAYS, WATEE AND SHIPPING I TOWN AND Alba Ry, Carthage Ash Grove Ry, 348, Aurora Ry, 720,	Asper 430, 720. Greene	Name of Company of Individual Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of One, Kind of Mine, annual Office, Names of Officers, Capital Stock, Name of Mine, Kind of One, Kind of Mine, annual Officer in Tors of 2200 Founds, Kind of Fower Used, Smellters, Erc., and Name of Mine Euteristreddent, Albu Co., Carthage, Mo., Geo, Dennison, prest.; W. H. Bradley, vprest.; Bartlett Palmer, treas.; W. H. Seamon, mgg., Cap. stk, Sholloof, Albu, lead, Zinc, Slope; steam, R. R. Alben, supt. Pennsylvania Mining Co., Charles S. Green, prest.; D. P. Hobart, seey.; G. A. Thisman, treas.; E. A. Hurt, mgr. and supt. Cap. stk, Sholloof, Mone, cor. Eleventh and Walnut sts. Charles W. Goetz, prest. Cap. stk, \$12,000. Lead, Zinc, 186 tons; horse. North & Murray. Ash Grove, lead, zinc, 166 tons; horse. North & Murray. Ash Grove, lead, zinc, 166 tons; horse, steam. Anchor Mining Co., Kansas City, Mo., cor. Seventh and Wyandotte sts. H. C. Lindsley, prest.; L. W. Hubbell, mgr. Cap. stk, \$20,000. Anchor, Zinc, Shaft, 4ftf, 300 tons; steam.
RAILWAYS, WATER AND SHIPPING I TOWN AND AND AND AND AND AND AND AND AND AN	Rottes Point. County. Jasper 400, 720. Greene	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore Kind of Mine, Annual Outfut in Tons of 2300 Founds, Kind of Fower Used, Saletters, Erc., and Name of Mine Experimenders.  Alba Co., Carthage, Mo. Geo, Dennison, prest.; W. H. Bradley, vprest.; Bartlett Palmer, treas.; W. H. Scamon, mgr. Cap. sik, 8100,000, Alba, lend, zinc. Slope; steam. R. R. Allen, supt.  Pennsylvania Mining Co., Charles S. Green, prest.; D. P. Hobart, seey.; G. A. Thisman, treas.; E. A. Hurt, ngr. and supt. Cap. sik, 82,000, Pennsylvania, lead, zinc. Shaft, horse.  Ash Grove Lead & Zinc Mining Co., St. Louis, Mo., cor, Eleventh and Walnut sts. Charles W. Goetz, prest. Cap. sik, 82,000, Lead, zinc. Shaft, stons; horse.  North & Murray. Ash Grove, lead, zinc. 16a tons; horse, steam.  M. M. Mining Co., Kansas City, Mo., cor, Seventh and Wyandotte sts. H. C. Lindsley, prest.; L. W. Hubbell, mgr. Cap. sik, 82,000. Anchor, zinc. Shaft, drift, 300 tons; steam.  M. M. Apple & Sons. Apple, lead, zinc. Shaft; horse.  Berry & Co. B. A. Berry, prest., mgr. and supt.; A. R. Moore, seev.; E. Jordon, treas, Jayhawker, lead,

# Cleveland & Aurora Mineral Land Co., Cleveland, Ohio, W. W. Baldwin, prest, and mgr.; H. J. Baldwin, secy, and treas. Cap. stk. \$100,000. Lead, zinc. Shaft, 75a tons; steam, horse, C. F. Johnston, supt. Wm, Coats & Co., Cap, \$1,000, Fountain Head, zinc. Shaft; steam. John N. Daiby, Sedalia, Mo., care of Third National Bank. Cap. \$100,000. Little Bonanza, zinc. Shaft, tunnel, 1,344 tons; steam. A. R. Daiby, supt. Dillard & Co. Cap. \$40,000. Dillard, lead, zinc. Tunnel, shaft; horse. Eaton & Co., P. O. Box 603. Cap. \$400. Tuff Nut, lead, zinc. Shaft, 231 tons; horse. A. C. Eaton, supt. Goodman & Co. Cap. \$1,000. Goodman, lead, zine. Shaft, 480 tons; horse. — Johnson, supt. Harry Wood Mining Co., St. Joseph, Mo. J. M. Street, prest.; H. Wood, seey, and treas.; L. D. Kelly, mgr, and supt. Cap. 8tk. \$10,000. Harry Wood, zinc. Shaft, drift, 1,070 tons; hand.

Johnston Bros. & Co. Cap. \$3,000. Turkey Track, lead, zinc and blende. Shafts, 550 tons; horse.

Casey & Co. Lead. Shaft, drift: 160 tons; hand,

T. J. Liles, Cap. \$50,000, Liles, lead, zinc. Shaft, 1,700 tons; steam. G. W. Liles, supt.

Little Rustler Mining Co. John L. Hall, prest, and mgr.; J. E. Hill, seey, and treas. Cap. stk. \$25,000.
Little Rustler, zinc. Shaft, tunnel; steam. F. Fitzpatrick, supt.

Louisville Lead & Zinc Co., Louisville, Ky., 140 Second st. J. M. Clark, prest.; T. L. Jefferson, seey, and treas. Cap. 8tk, 8400,000, Orchard, zinc, blende, lead. Shaft, L600 tons; horse, steam, W. M. Johnston, mgr, and supt.

McCullah Mining Co., Marionville, Wo. John A. McCullah, prest,, mgr, and supt.; Belle B. McCullah, seey.; D. D. Seaman, treas. Cap. stk. \$9,000. McCullah, lead, zinc. Shaft, 600 tons; steam. Mogal Mining Co. S. Ritter, prest.; Jacob Nathan, seey, and treas. Cap. \$2,000. Mogal, lead, zinc. Shatt, 500 fons; steam. John A. Cook, supt.

E. Nathan, E. Ogbisby & S. Cohn, Cap. \$2,500. Little Rina, zinc, lead. Shaft, 100 tons; steam.

Nickel Plate Mining Co., F. H. Brinkerhoff, prest.; Chase Palmer, secy, and treas. Cap. stk, \$20,000. Nickel Plate, zine, blende. Shaft; steam.

Ozark Range Mining Co., Louisville, Ky., 521 Third av. C. W. Gheens, prest.; C. D. Moody, seey., treas, and mgr. Cap. 8tk. \$40,000. Lead, zinc. Shatt, 200 tons; steam. C. F. Johnston, supt. James Ratliff. Bloch, lead, silicate. Shaff, 20 tons; horse,

Rinker Lead & Zinc Co. George W. Rinker, prest.; J. C. Plumb, seey.; W. B. Booth, treas.; S. H. Minor, mgr. Cap. stk. \$60,000. Rinker, zinc, lead. Shaft, 4,000 tons; steam, horse. J. L. Rinker, supt.

# LEAD AND ZINC (CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2009 FOUNDS, KIND OF FOWER USED, SMELTERS, ETC., AND NAME OF MINES EMPERINTENDENT.
TOWN AND COUNTY.	TOWER COLD, SHEDIERS, EIG, AND NAME OF MINE SUPERINTENDENT.
Aurora Lawrence (Continued.)	Robertson & Co. Cap. \$10,000. Big Bonanza, zinc. Shaft, L000 tons; steam, W. H. Robertson, supt.
ac	H. C. Ruly. Cap. \$1,500. Tri-Weekly, lead, zinc. Shaft, 150 tons; steam.
** **	St. Louis Aurora Minling Co. H. H. Wernse, prest.; James Abbott, vprest., H. M. Nocl, treas.; H. G. Nocl, seey. Cap. 8tk, \$000,000. St. Louis Aurora, lead, zinc. Shaft, drift, Luou tons; steam, L. W. Hubbell, supt.
	Seamon Mining Co., Rolla, Mo. D. W. Malcoliu, prest.; S. B. Rowe, seey.; A. S. Long, treas., Charles A. Reed, mgr, and supt. Cap. stk. \$100,000. Seamon, lead, zinc. Shaft, 25 tons; steam, horse,
** .	Smith & Co. Cap, \$500. Louisville, lead and zinc. Shaft and tunnel, 5 tons; free; horse and steam.
	Spell & Scott, Cap. \$2,500. Patirosa, lead, zinc. Steam.
	Valley Queen Minling Co., Valley Queen, lead and zlnc. Shaft, tunnel; steam. M. Hudson, supt. E. H. Williams. Andependent, zinc. Shaft; steam.
Belleville Jasper (P. O. Zheite) Ry.348.	Knoble Mining Co., Chicago, III., 85 Dearborn 8t. A. M. Knoble, prest.; L. S. Raker, seey., A. C. Swanson, treas. Cap. 8tk, \$20,000. Holden, lead, zinc. Shaft, 2389 tons, steam. C. M. De Graff, supt. St. Charles Lead & Zinc Co., 8t. Charles, Mo. J. W. Bergfield, prest.; J. F. Hackmann, vprest.; N. G. Ponglass, seyy, mgr., and supt.; H. D. Bruns, treas. Cap. 3tk, \$100,000. Murphy, zinc, lead. Shafts.
**	5,000 tons; steam.
	Standard Lead & Zhe Mining Co., Joplin, Mo., 594 Morfett av. F. W. Johns, prest.: Arthur Speneer, seey, J. H. Bangerfield, freas, and nigr. Cap. 8tk, \$48,000. Standard, zine, blende. Shaft, 450 lons, steam, H. E. Bangerfield, sapt.
Blackwell. St. François Ry, 714.	Thomas Welch, Cap. \$15,000. Picayane, barytes, lead. Shaft, 200 tons; hand. Wm, Welch, supt.
	Joslah Stum. Lead, zinc. Shaft, horse, W. S. Craine, supt.
	St. Joseph Lead Co., St. Louis, Mo., 165 Laclede Bldg, J. Wyman Jones, prest., Hugh N. Camp, seey, and trens. Cap. stk. \$3,690,000. St. Joseph, lead. Shaff, 13,000 tons; water, furnace, Charles B. Parsons, supt.
Bourbon . Crawford Ry, 720,	F. W. Linn, St. Louis, Mo., 2300 Hebert st. Cap. \$5,000. Salamanka, lead. Shatt; steam. G. L. W. Smith, supt.
Carterville dasper Ry, Webb Clty 348, 460, 720,	G. W. Bensley, Cap. \$20,000. Beasley, lead, zlnc. Shaft, 2,000 tons, steam,
b) (1)	Blanfon & Wyaft, Cap. \$20,000. Blende. Open pit, 1,000 tons, steam. S. B. Wyaff, supt.
	Daugherty, Davy & Daugherty, W. A. Daugherty, prest., W. A. Daugherty jr., seey., J. A. Daugherty, treas, and supt., T. W. Oyler, mgr. Cornfield, zinc, lead. Shaft, 2,500 tons, steam, horse.
**	Grubb & Stamp. Zinc, lead. Shaft, 10) tons, horse.
14	M. L. Harden & Co. M. L. Harden, prest, and supt.; Freeman Row, mgr. Cap. \$49,000. Zinc, lead. Shaft, 2,600 tons; steam.
60	Lamar Mining Co. Lead, zinc. Shatt, steam (developing). J. K. Anderson, mgr. and supf.
6.0	Landreth & Paten. (Lead, zinc.) Shaft, 600 tons, steam. (G. W. Landreth, supt.
**	Llehtliter & Page, Joplin, Mo. Zinc. Shaft; steam.
	Lost Hope Mining Co. W. H. Stevenson, prest, mgr, and supt. A. T. Fountain, seey, and treas. Lost Hope, lead, Zhe. Shaft, horse, steam, W. H. Stevenson, supt.
	Minneapolls & Webb City Mining Co., Minneapolls, Minn., 224 Boston Block. F. A., Fisher, prest.; S. A. Reed, seey, and treas., D. G. Mitchell, mgr. and supt. (ap. stk, 500,000, Minneapolls, lead, zinc. Shaft, Steam.
	North Carterville Draining Co. Lead, zinc. Shaft, 4.50 (tons. Steam, horse, hand, Paul N. Davey, supt.
**	Ozark Mineral Land and Mining Co., Carthage, Mo. S. W. Pierce, prest.; J. W. Pentzer, seey.; T. T. Luscombe, treas.; T. J. Campbell, mgr. and supt. Cap. stk. \$100,000. Lead, zinc. Steam.
	Sadtler Lead & Zine Co., Bethlehem, Pa. Samuel P. Saltler, prest., Josiah Bachman, seey, and treas. Cap. 8tk, \$188,300. Sadtler, lead and zine. Shaft; steam (developing).
64 39	Schoenberger & Zogg Mining Co. Matt Zogg, prest, and seey.; F. Zogg jr., treas, and mgr. Cap. stk. \$36,000. Lead and zlnc. Shaft, 2,600 tons; steam. R. L. McGee, supt.
"	Troup Minling Co., Joseph H, Clark, prest.; Charles F, Robbins, seey, and treas., S, H, Cobb, mgr. Cap. stk. 8160,000. Troup, lead, zinc. Shaft, 7,937 tons, steam.
46	Vernon Mining Co., Nevada, Mo. M. T. January, prest.; A. L. Davis, seey., F. E. Carr, treas. Cap. stk. \$20,000. Vernon, lead, blende. Shaft; steam. J. H. Eslinger, supt.
Carthage Jasper Ry, 460, 720,	Myers & Jennison. Zinc. Shaft 1,200 tons; steam.
	Paeifie Mining Co. B. P. Waggener, prest.: W. P. Waggener, seey, and treas.; Wm. B. Myers, mgr. and supt. Cap. 8tk, \$24,000. Pacific, blende. Shaft, L500 tons; steam.
Cave Springs Jasper (P, O, Joplin) Ry, 348,	W. Wilson, seey.; F. M. Shaw, treas.; Damei Dyer, mgr. and supt. Cap. stk. \$30,000. Banner, zinc, blende. Open pit, 1,000 tons.
Chadwick Christian Ry, 720.	Armstrong Mining Co., Springfield, Mo., First National Bank, Public Square, R. L. McElhany, prest, and treas., Homer McElhany, seey., J. V. Hammond, mgr, and supt. Cap. stk. \$50,000. Armstrong, lead, zinc. Shaft, pit, slope; steam.

	LEAD AND ZINC (CONTINUED)
LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE/NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,300 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE STPERINTENDENT.
ChadwickChristian (Continued.)	Easley Mining Co., Springfield, Mo., Baker Block, Rooms 19 and 21. Wood Bouldin jr., prest.; R. P., Bowyer, seey, and treas; J. A. Hammond, ingr. Cap. stk. \$100,000. Easley, lead. Tannel and shafts, 600 fors; steam. A. Hall, supt.
Cruise Washington Ry, Blackwell 460.	Washington Land & Mining Co., St. Louis, Mo. C. S. Gruly, prest.; Dwight Treadway, seey, and treas.; R. T. Brown, mgr. and supt. Cap. stk. \$60,000. Washington, lead, zinc. Shaft, tunnel, 400 tons; water, band.
Doe Run St. François Ry. 457.	Doc Run Lead Co., Bonne Terre, Mo. J. Wyman Jones, prest.; F. P. Graves, secy.; Hugh N. Camp, Ireas.; C. B. Parsons, ngr. Cap, stk. 8750,000. Doc Run, lead. Shaft, 4,000 tons; steam; blast turnace, 6,000 tons.
	Teeumsch Mining Co. W. P. Wright, prest; W. D. Cox, mgr. and supt. Cap. stk. \$7,000. Teeumsch. lead and Zine. Shaft; horse (developing). Z. F. Higginbotham. Cap.\$40,000. Lead. Shaft, 150 tons; horse, hand.
Granby Newton	Barnett Mining Co. Woodland, lead. Shaft, drift; hand. J. McKee, mgr. and supt.
Ryl. 720.	Ben Harrison Mining Co. Cap. \$3,000. Ben Harrison, zinc, lead. Shaft, 1,440 tons; steam. Lonis J.
	Love, supt.  Benjamin F. Butler Mining Co. W. H. A. Green, prest.; C. H. R. Kugel, seey.; Henry Meadow, treas.;  John Blunk, mgr. and supt. Benjamin F. Butler, lead, zinc. Shatts, 80 tons; steam, hand.
	Cupps, Wood and others. Barnett, lead. Shalt, tunnel; hand (developing).
	Frost & Co. E. M. Frost, prest.; W. S. Frost, seey.; Ed. Stanaford, mgr. Cap. stk. \$2,500. White Rock, zinc, lead. Shaft, tunnel; steam, C. E. Uarker, supt.
99 (1	Granby Mining & Smelting Co., St. Louis, Mo., Equitable Bldg. John P. Neville, prest.; A. G. Trevor, seey, and treas. Granby, lead, zinc. Shaft, steam; furnace. John Kingston, supt.
	Johnson, Mesplay & Co. A. J. Johnson, gen. mgr. Cap. \$2,500. Starcher, lead, zinc, silicate. Shaft; horse, Ed. Mesplay, supt.
Gregg Newton Ry, Joplin 348, 460, 720.	
Joplin	Barbee Mining Co. James Campbell, prest., J. L. Briggs, seey, and treas. Cap, stk, \$100,000. Lead, zinc. Shaft; steam. Matt. Coyle, supt.
0	Brewer Bros, & Parks, H. M. Brewer, prest, mgr, and supt.; W. Brewer, secy.; F. Brewer, freas, Cap. stk, \$10,000. Brewer Bros., lead, jack. Shaft, 2,000 tons; steam.
0.00	Carlisle, Gobar & Tomlinson, 930 W. Second st. Cap, \$16,000. Carlisle, jack, lead ore. Shaft, tunnel, 155-tons; horse. Jack McCurdy, supt.
	Cave Spring Mining Co. Wm. E. Brinkerhoff, prest.; Victor A. Wallace, secy. and treas.; Philip J. Pfenning, mgr. Cap. 8tk, 860,000. Cave Spring, zinc, blende. Open pit, shaft, L000 tons; steam. Daniel Duyer, supt.
	Columbian Lead & Zinc Co., Chicago, Ill., 85 Dearborn 8t. L. Weinschenk, prest.; S. E. Magill, secy, and treas, Cap. 8tk, \$4,500,000. Lead, zinc.
**	Cottonwood Mining Co. Cap. \$25,000. Cottonwood, lead, zinc. Shaft, 600 tons; steam.
**	Crossman Mining Co. H. B. Crossman, prest.; P. L. Crossman, vprest.; J. E.Stilwell, seey., treas, and supt.; E. D. Porter, mgr. Cap. 8tk. \$30,000. Crossman, zinc. lead. Shaft; steam.
	Emilie Zine Co., St. Louis, Mo., 24 N. Third st. Frank Carter, prest.; I. Shreve Carter, seey, and treas.; A. W. Sewall, nigr, and supt. Cap. stk. \$300,000. Lead, zinc. Shaft, drift, 700 tons; steam, electricity.
16 19	Empire Zine Co., Philadelphia, Pa., 925 Chestrut st. John Price Wetherill, prest.; T. Lewis Thomasseey.; J. H. Troutman, Frast; W. C. Wetherill, ngr. Cap, stk. \$750,000. Lead, zine. Shaft, 5,800 tons: steam, electricity, horse; zine smeller, 2,700 tons. Pope Ventman supt.
<sup>60</sup> 35	Great Western Mining Co., Kansas City, Mo. Great Western. Shaft, 10,560 tons; steam. Robert Ries, supt.
	Gretchen Lead & Zinc Co., St. Louis, Mo., Bank of Commerce Bldg. M. Greenwood jr., prest.; M. Greenwood sr., seey, and treas. Lead, zinc. Shaft; steam. S. Morrison, supt.
	M. E. Hubburd, cor. Broadway and Missouri sts. Hubburd, lead, zinc. Shaft, 1,500 tons; steam, Jacob Fanning, supt.
0	Jacobs Bros., Carthage, Mo., care of First National Bank. Pincard, lead, zinc. Shaft; steam, W. Hogue, supt.
	King Solomons Mining Co., Kansas City, Mo., 58 Sheidly Bldg. Thomas H. Mastin, prest.; John C. Tate, seey, and treas. Cap. stk. \$5,000. Tanyard Hollow, lead, zinc. Shaft; steam.
11	Lee Taylor & Co. Lead, zinc. Shaft, drift; steam. Lee Taylor, supt.
**	Little Nellie Zinc Co., St. Louis, Mo., 619 Chestnut st. B. F. Webster, prest.; Geo. B. Webster, secy, and treas.; J. A. Stanton, mgr. and supt. Cap. stk. \$50,000. Little Nellie, zinc, lead. Shaft; steam, horse.
	Little Nugget Mining Co. L. Henon, prest.; M. C. Proudfoot, seey., treas, and mgr. Cap. stk. \$25,000. Little Nugget, lead, zinc. Shaft, 260 tons; steam. T. Henon, supt.
11 (+	D. C. McConey. Ford, Owen, lead, zinc. 2,000 tons; steam.
	F. G. McCoy. Cap. \$15,000. Possum Hollow, lead, zinc. Shaft, 33 tons; steam,

Mittleberg, Lead & Zine Mining Co., St. Louls, Mo., 6 N. Seventh st. Thomas W. Crouch, prest.; Arthur Mittleberg, seey, and treas; Wm, A. Reed, mgr. Cap. stk. \$12,000. Mittleberg, lead, zinc. Shaft, 225 tons; steam. James M. Reed, supt. E. R. Moffet jr. Cap. \$40,000. Lead, zinc. Shaft, 4,000 tons; steam.

Manhattan Zine Co., St. Louis, Mo., 417 Pine st. Walter Taylor, prest.; D. G. Taylor, seey, and treas, Cap. stk. \$15,000. Manhattan, lead, zine. Shaft, 845 tons; steam. T. Henon, mgr. and supt.

Lehuch

Mansfield.

Ry. 460,

#### LEAD AND ZINC (CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.		Name of Company ob Individual, Location of Frincipal Office, Names of Officers, Capital Stock, Name of Nine, Kind of Ore, Kind of Mine, Annual Ottput in Tons of 2011 Pounds, Kind of Power Used, Smilters, Etc., and Name of Mine Suffrinceadery.	
TOWN AND	COUNTY.	TOWER USED, OMELIERS, EIG, AND SAME OF MINE SUTEMINENDEST.	
Joplin. Continue		Monkey Hill Mining Co. Cap, \$15,009. Monkey, zinc, lead. Shaft, 2,000 tons; steam. J. P. Wheeler, sup	
**	. **	Moonshine Mining Co. L. C. Wilmoth, prest.; W. S. Paul, seey, and treas. Cap. 8tk. \$65,000. Moonshine lead, zinc. Shaft; steam, horse.	
**	**	Oswego Lead & Zine Co. Samuel C. Cook, prest, and mgr.; George Shaw, seey, and treas. Cap. st. \$500,000. Oswego, lead, zinc. Shaft, 3,700 tons; steam.	
**	**	W. S. Paul, Lead, zinc, Shalt; horse,	
**	**	Petri Zinc Mming Co., St. Lonis, Mo., 46 N. Eighth St. M. Greenwood, prest.: J. M. Crouch, seey, and treas Cap. 8tk. \$24,000. Petri, blende, lead. Shaft, 4,040 tons; steam. Geo. W. Ketner, supt.	
	**	Randall & Co. Cap. \$5,000. Randall, lead, jack. 25 tons; steam, T. S. Lowry, supt.	
**	**	Rice & James. Mahaska, lead, zinc. Shaft, drift, 464 tons; steam, electricity. J. M. James, supt,	
**	**	Roaring Springs Land & Mining Co., Ebensburg, Pa. D. W. Luke, prest.; Alvin Evans, seey, and treas, D. C. Hoover, mgr. Cap. stk. \$100,000. Lead, zinc. Shaft, 2,500 tons; steam. E. Hedburg, supt.	
	**	Charles E. Rose. Cap. \$20,000. Moonshine, lead, zinc. Shaft, 255 tons; steam,	
**	**	Ruby Mining & Smelting Co., St. Louis, Mo., 50 Olive St., Room 41. C. C. Higham, prest.: Henry Digby seey, and treas. W. S. Higham, mgr. Ruby, zinc. Shaft, steam (developing).	
**	**	Rusk Mining Co., Kansas City, Mo., 802 New York Life Bldg. L. W. McCullum, prest.; N. A. Dickey treas, Cap. 8tk, \$10,000. Lead, zinc. Shaft, steam.	
"		Snyder Bros., Mining & Smelling Co., F. L. Snyder, prest.: H. K. Snyder, seey, and treas. Cap. stk \$350,000. Snyder Bros., zine, lead. Shafts, s.coo lons; steam, electricity. John C. Snyder, snpt.	
	**	South Joplin Lead & Zine Mining Co., Kansas City, Mo., 2007 Fast Twelfth st. T. A. McClelland, prest, Robert Moody, seey.; J. T. Harwood, treas.; J. Myres, mgr. and supt. Cap. 8tk, \$0,000. Lead an zine. Shafts, 800 four, steam.	
	**	Standard Lead & Zine Mining Co. E. W. Johns, prest.: Arthur Spencer, seey.; J. H. Dangerfield, treas and mgr. Cap. stx, \$48,000. Standard, zinc, blende. Shaff, 5,700 tons, hand, steam. H. E. Dangerfield supt.	
	**	Sterling Lead & Zine Co., New York City, 52 Broadway. G. N. Bacon, prest., P. S. Swam, seey., treat and mgr. Sterling, lead, zine. Shaft, 950 lons, steam. T. Henon, supt.	
	**	Wenrich Lead & Zine Co., Mansfleld, Ohio, 8 <sup>1</sup> ; N. Main St. W. L. Sewell, prest.; H. P. Sewell, seey.; S. P. Eckl, trens. Cap. 8tk, 8150,000. Wenrich, lead, zine. Shaft, tunnel; steam. D. K. Wenrich, sup.	

West Hollow Lend & Zine Co., St. Louis, Mo., Washington av. J. Sella, prest. Cap. 8tk. \$50,000. Star. lead, blende. Shaft, Loue tons; steam. A. Smithner, mgr. and supd.
 E. J. Williams & D. Hamill. Big Run, Zine. Shaft, Loue tons; steam, horse. J. W. Orr, supt.

Windsor Mining Co., Kansas City, Mo., 16 E. Sixth st. R. Robertson, prest.; J. L. Norman, seey, and treas.; Ernest L. Robertson, mgr. Cap. 830,000. Lead, zinc.

igh — "Jasper Franklin Zine Co., F. L. Johnston, prest, and treas.; T. S. Hayton, seey.; J. B. Johnston, mgr. and supt. Ry, Carl Junction 720. — cap. stk. \$40,000. Lehligh, zine, lead. Shaft, stope, 5,500 tons; steam.

81. Louis Zinc Mining Co., 81. Louis, Mo., 317 and 319 N. Third st., J. E. Lawton, prest., seey, and treas, W.A. Irwin, mgr, and supl. Cap. stk. \$10,000, Nickel Plate, zinc. Shaft, open pit, 1,000 four; steam, Wite Elephant Zinc Co., A. H. Rogers, prest; C. S. Thomas, mgr. Cap. stk. \$40,000. White Elephant, zinc. Open pit. L. Evans, supt.

Zine, Open pit. L. Evans, supt.

Wright Dodson Lead & Zine Co., Bethlehem, Pa., Truman M. Dodson, prest.; Josiah Bachman, seey, and treas, cap. stk. \$100,000. Zine, lead. Shaft; steam (developing).

Mine La Motte, Madison Rowland Hazard, Mine La Motte, lead, Shaft, steam; furnace, J. D. Sanders, supt.

Mineral Point, Washingt'n J. F. Richardson, Walton, Mesplay and others, lead. Shaft: furnace, Ry, 714.

Mumford Greene Gumbo Mining Co. Cap. \$850. Gumbo, lead, zinc. Shaft, 630 tons; steam. S. D. Ramsey, supt. Ry, Turner 348.

Old Mines. Washington Union Mining & Suedding Co., St. Louis, Mo. C. B. Burnham, prest.; W. H. Davis, seey.; G. W. Chadbourne, freas.; Alex, Harrison, fagr, and supt. Cap. stk., \$80,000. Old Mine, lead. Shaft, 300 tons; stem; blast furnace, 1,000 tons.

Oronogo, Jasper John Lowry & Co. Sunshine, lead, zinc. Shaft, tunnel, 120 tons; horse, hand. John Lowry, supt. Ry, 720.

Margerum Mining Co. Geo, J. Margerum, prest., treas, and mgr. Chas. M. Reynolds, secy. Cap. 8tk. \$900,000. Margerum, lead and zine. Shafts; steam (developing).

Peak Mining Co., Webb City, Mo., L. R. Read, prest.; S. S. Bice, seey.; James Gammon, treas.; A. L. Henderson, v-prest, and mgr. Lead, zlnc. shaft, drift, steam (developing).

Palmer . Washington Palmer Level Co. J. H. Alusworth, prest, and seey.; P. J. Cummings, treas.; T. F. Blount, mgr. and supt. Cap. stk. \$180,000. Lead. Shaft, 600 tons; horse; Inrnace.

Potosi , Washington 'F. A. & P. McArthur, Toronto, Canada, Lead, zinc, Surface; air furnace, Hugh McGregor, mgr. Ry, 714.

Prosperity Jasper Troup Mining Co., Webb City Joseph H, Clark, prest.; Charles F, Robbins, seey, and treas.; S. H. Cobb., Ry, Webb City 348, 450, gen. mgr. Cap. stk. 846,000. Troup, lead, zinc. Shaft, 7,350 tons; steam.

Scotland . Jasper Speed Bros., Joplin, Mo. Cap, \$10,000. Speed Bros., lead, zinc. Shaft, 1,000 tons; steam. Sidney Speed, Fig. Webb City 348, 460, Supt.

# LEAD AND ZINC-(CONTINUED)

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Rind of Ode, Rind of Mine, annual Output is Toks of 2000 Pounds, Rind of
TOWN AND COUNTY.	Power Used, Smelters, Etc., and Name of Mine Superintendent.
SteelvilleCrawford Ry, 720.	Star Mining Co., H. S. Walbridge, prest.; J. F. Evans, seey.; Thos R. Gibson, treas.; W. A. Metealf, mgr. Cap. stk. 850,000. Courtois, lead, zinc. Shaft; steam; air furnace. H. W. Nethington, supt.
Webb City Jasper Ry, 348, 460, 720.	Asheroff-Reynolds Co. John R. Reynolds, prest.; C. M. Reynolds, secy, and treas.; G. P. Asheroff, mgr. and supt. Cap. \$300,000. Asheroff-Reynolds, lead, zinc. Shaff, 300 fons; steam.
"	Bair & McLelland. Lead and zinc. Shaft, 520 tons; horse, J. W. Bair, supt.
** ***	Caldwell & Co. Zinc, blende, Shaft; steam.
**	Center Creek Mining Co., St. Louis, Mo., 213 N. Eighth st. B. F. Hammett, prest.; J. C. Stewart, seey, and mgr.; W. C. Stewart, treas. Cap. stk. \$1,500,000. Center Creek, lead, zinc. Shaft, 18,147 tons; steam.
**	Chatham Mining Co., Chatham, N. Y. A. E. Traey, prest.; James Smith, seey, and treas.; J. A. Hewitt, mgr, and supt. Cap. stk. \$10,000. Chatham, zinc, lead. Shaft, tunnel, 6,500 tons; hand.
**	Columbia & Gammon. No. 5, lead, zinc. Shaft, tunnel, 7,500 tons; steam. James B. White, supt.
**	W. G. Davison, Cap. \$10,000. Lead, zinc. Shaft, 4,000 tons; steam, horse, hand. J. R. Seay, supt.
	Dayton Mining Co. H. W. Fullerton, mgr. Cap. \$15,000. Dayton, lead, zinc. Shaft, 2,500 tons; steam. I. M. Tabor, supt.
** ***	Eleventh Hour Mining Co. J. W. Aylor, prest.: H. H. Aylor, secy.; A. W. Aylor, treas.; F. Brunerman, mgr. and supt. Cap. stk. \$500,000. Eleventh Hour, lead, zinc. Shaft, drift, 15,600 tons; steam, horse.
***	Garrison Lead & Zinc Co. O. F. Garrison, prest, and mgr.; Thornton Ware, seey.; Geo. W. Ware, treas. Cap. \$30,000. Garrison, zinc, lead. Shaft, 2,100 tons; steam. I. H. Schalk, supt.
**	Home & Co. Tenderfoot, lead, zinc. Shaft, 400 tons, steam. C. C. Home, supt.
" - "	Horton & Co. Zinc, lead. Shaft, 600 tons; steam, hand. Monroe Horton, supt.
11 11	A. W. Hough. Lead, zinc. Shaft, drift, 600 tons; steam.
** .	Houghton & Son. Cap. \$5,000. Zinc, lead. Shaft, 1,000 tons; steam. Joseph Houghton, supt.
**	Keller Mining Co. E. L. Martin, prest.; W. F. Davall, secy.; H. B. High, treas.; J. K. Brugler, mgr, and supt. Cap. stk. 850,000. Keller, lead, zinc. Steam.
"	J. F. Lewis, Sucker Flat, zine, lead, Shaft, 550 tons; steam.
	F. E. Martin & Co. Martin Bird, lead, zinc, Shaft, 1,000 tons; steam, F. E. Martin, supt.
	Missouri & Hlinols Lead & Zine Mining Co. F. S. Bennett, prest.; A. P. Charles, vprest.; G. M. Overhiser, seey, and supt.; J. M. O'Blenis, treas, and mgr. Cap. stk. \$900,000. Lead, zine. Shaft; steam developing).
"	Morning Star Mining Co., Joplin, Mo., 306 Sargent st., Monroe Clark, prest.; S. C. Price, seey.; John F., Wise, trens.; J. A. Hewitt, mgr., Cap. 8tk, \$10,000, Morning Star, zinc. Shaft, 1,000 tons; steam. Win, Cornine, supt.
	Mound City Mining Co., St. Louis, Mo. Louis Grund, prest.; A. H. Brueggeman, seey.; Phil. H. Lenz, treas.; Louis Helm, mgr. and supt. Cap. stk. \$100,000. Mound City, lead, zinc. blende. Shaft.
	Nevada Mining Co. A. L. Hazelton, prest.; W. H. Keeler, secy., mgr, and supt.; E. F. Clark, treas. Cap. stk. \$30,000. Nevada, lead, zinc, blende. Shaft, 1,310 tons.
**	Noble Mining Co., Joplin, Mo., 816 Pearl st. W. E. Campbell, prest.; W. D. Campbell, seey.; Webb City Exchange Bank, freas.; W. R. Duncan, mgr. and supt. Noble, lead, zinc. Shaft; steam.
	D. M. Page, Joplin, Mo. Zinc. Shaft; steam.
	Perkins & Co., Cap. \$10,000. Carthage, zinc. Shaft, 3 tons; horse. Isaac Perkins, supt.
**	Richland Mining Co., Mansfield Ohio. B. F. Crawford, prest.; J. M. Waugh, secy, and treas. Cap. stk. \$100,000. Richland, lead, zinc. Shaft, 3,600 tons; steam. J. A. Hardy, supt.
.,	A. T. Steelman, Cap. \$20,000. Buck Horn, zinc, lead. Shaft, 55s tons; steam. H. W. Bowman, mgr. and supt.
	Stevison, Wampler & Co. Cap. \$30,000. Lead, zinc. Shaft, 3,600 tons; steam. L. J. Stevison, supt.
	Victor Mining Co. Monroe P. Welton, prest.; Thomas R. Cobb, seey.; John W. Arnold, treas. Cap. stk. \$100,000. Victor, zinc. Shaft, 8,000 tons; steam. E. L. Schooler, supt.
Zincite Jasper Ry, Belleville 348,	Alvey & Clevenger. Alvey Discovery, zinc, lead. Shaft; steam,
*1	J. Copley. Cap, \$18,000. Zinc, blende. Shaft, 800 tons; steam.
"	Gold Button Mining Co. C. C. Wheeler, prest.; John N. Burgess, seey., treas., mgr. and supt. Cap. stk. \$1,300. Gold Button, zine, blende, lead. Shaft, 104 tons; horse.
	MINERAL PAINT
LOCATION OF MINE, RAILWAYS, WATER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
AND SHIPPING POINT.  TOWN AND COUNTY.	NAME OF MINE. KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Dry Branch Franklin Ry, 720,	Robert Heyms. White baryles, ore paint. Shaft, hand. Hibbard & Pickles. Booth, iron paint ore, lead. Hand.

Mineral Point, Washingt'n Mrs. L. D. Bone, Boaz, 2,334 tons, Ry, 714.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME OF MINE OR QUARRY, KIND OF STORE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF  2,000 POUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERILES AND
TOWN AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Becker Franklin Ry, 715.	Tayern Rock Sand Co., St. Louis, Mo., 316 Commercial Bidg. L. C. Garrett, prest.; W. H. Garrett, seey. A. T. Lannu, mgr. Cap. \$30,000. Tayern Rock, white sandstone. Open pit, 120,000 tons: steam; san mill. Tom Tracy, supt.
Bourbon Crawford Ry, 720.	F. W. Llun, St. Lonis, Mo., 2,300 Hebert st. Salamanka, sandstone. Steam.
**	Moore & Richards. Cap. \$1,200. Onyx. Shaft, tunnel; hand. E. B. Moore, mgr. and supt.
Cape Girardeau Cape Girardeau Ry, 713.	Cape Lime & Marble Co. Marble. Open pit; horse; llmckiin, 2,000 bris.
Carthage Jasper Ry, 460, 720.	Carthage Marble & White Lime Co., 8t. Louis, Mo., 901 Olive St., Room 51. Geo. T. Riddle, prest: H. F. Gruetzemacher, seev. Cap. 8tk, \$25,000. Carthage, marble, limestone. Open pit, 6,000 tons; steam mill. Mich et Torphy, supt.
n	Carthage Quarry & Construction Co., Boy 301, G. M. Mernow, prest.; J. R. S. Nichols, seey.; Luk McLaughilu, freas.; M. F. Viernow, mgr. and supt. Cap. 8tk, 825,000. Limestone, 5,000 tons; stean mills.
De Witt Carroll Ry, 784.	Carroll County Sand Stone Co. Cap. stk. \$10,000. Carroll County Quarry, white sandstone. Open pit, 3.00 tons. steam; mill. L. H. Smith, supt.
Glen Park	Lime Co, of St. Louis, St. Louis, Mo., 1136 Christmut St. Charles W. S. Cobb, prest, Theo. W. C. Bohn seey.; P. J. Damouhelm, treas. Cap. 8tk, \$2,000. Gleinwood, limestone. 12,000 tons. Peter McLoor supt.
Graniteville Iron Ry, 460,	Schnelder Granife Co., St. Louis, Mo., Emilie Ridg., 902 Olive st. P. W. Schneider, prest.; Julius M. Schneider, seey, and treas; P. W. Schneider Jr., mgr. Cap. stk. \$150,000. Schneider, granife. Oper 27,000 (noisy) steam, mill. John Hughes, supt.
55 39. d	Syenite Granite Co., St. Lonis, Mo., 125 S. Fourth st. Win, R. Allen, prest.; J. W. Wallace, seey. Thomas F. Walsh, treas.; E. M. Smith, vprest., mgr. and supt. Cap. 8tk, \$900,00. Granite, 11.30 tone; steam, mill.
Knob Lick St. François Ry, 460.	Skrainka Construction Co., St. Louis, Mo., Granite Ridg., 494 Market St. Louis Skrainka, prest Morris Skrainka, seey, and treas., James Thurley, ngr. and supt. Cap. 8tk, \$2,400; indv. 80 8605,000. Skrainka, grantle. Open pit. slope, 12,000 tons; steam; horse.
Rolla Phetps Ry, 720.	J. I. Buskett. Fire clay. 3,000 tons.
Ste, Genevieve, Ste, Genevieve Ry, 458.	Jules Boyer. Cap. 87,000. Lamestone. Open pil; hand; timekiln, capacity 1,500 tons.
By. 461.	Ferdinand Moser. Cap. \$10,000. St. Genevieve, oblitic limestone. Slope, 3,000 tons; horse, hand, lim kiln, capacity 3,000 tons.
Se balia Ry, 459, 460. Petris	Sedalla Mining & Prospecting Co., 27 Dempsey Bldg. J. G. White, prest.; Jonathan Myers, seey., F. W. Shultz, trens., G. M. Babeock, mgr. Cap. 8tk, \$50,000. Sedalla, stone, gravel. Open pit, steam; mil
	Hinckley Stone Co., J. F. Hinckley, prest.; R. W. Jay, seey, and treas.; J. M. Hedges, mgr., Cap. stl. \$70,000. South Greenfield Quarry, limestone. Open pit, steam, mill. kiln. 7,200 tons.
Sullivan Franklin Ry, 720,	Meramoc Onyx & Metal Co., Roston, Mass., 416 Bedford st. Walter L. Church, prest., E. F. Myers, secy and treas. Cap. stk, \$500,000. Hamilton, onyx, lead, red ocher. Shaft, open; steam.
Vigus Station St. Louis (Not a P. O.) Ry, 745.	Crystal Springs Quarry Co., St. Louis, Mo., 410 <sup>1</sup> ; Market St. Charles G. Meyer, prest, and treas.; A. I. Hopkins, seey. Cap. stk. \$15,000. Crystal Springs, limestone. 40,000 tons, hand, mill.
Warrensburg Johnson Ry, 460,	Lawrence Bruce, St. Louis, Mo., Jefferson av. and Mo. P. Ry. Jas. B. Miller, mgr. and supt. Ca \$100,000, Warrensburg, blue and white sandstone. Open pit, 10,000 tons, steam; mill.

SEE ALSO SUPPLEMENTARY LIST

# MONTANA

#### ASBESTOS

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN Bozeman COUNTY.

COUNTY.

Gallatin Gallatin Asbestos Mining Co. Theo, Schweitzer, prest, and mgr.; E. D. Ellis, secy.; Geo, W. Ellis, mgr. Cap. stk, \$250,000. Jumbo and Little Kid. Shaft and tunnel, 15,000 tons.

#### COAL-BITUMINOUS

LCCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

AND

Blossburg ... Deer Lodge Mullan Pass Coal Co. Mullan Pass. Shaft and slope; steam (developing), Ry, 529.

Castle . . . . Meagher Ry, Livingston 529 (4 Meagher miles).

Black Diamond Coal & Coke Co. (local). Daniel Sharp, prest, and treas.; Burt Marsh, seey, and mgr. Cap. stk. \$550,000. Black Diamond. Shaft and tunnel, 10,000 tons; steam; 4 coke ovens.

R. F. Carney (local). Black Giant. Tunnel, 3,000 tons; horse and hand, Castle Coal & Coke Co. O. P. Dabney, prest.; Mrs. Lottle Donovan, seey.; Mrs. Mary Doneet, treas.; David Doneet, mgr. Cap. stk. \$500,000. Castle. Shafts and tunnels; water (developing).

Cokedale .... P Ry, Livingston 529,

Park Livingston Coke & Coal Co., Helena, Mont. S. T. Hauser, prest.; A. J. Seligman, treas.; O. R. Allen, mgr. Levington, Tunnels and slopes, 30,0000 tons; steam; washer and crusher, 100 coke ovens, 30,000 tons. Geo, T. Wickes, supt.

Horr.... Ry. 529,

Park Coal & Coke Co. J. H. Conrad, prest.; F. A. Krieger, secy.; S. C. Hunter, treas, and mgr. Cap. stk. \$1,000,000. Horr. Tunnel and slope, 41,000 tons; steam; washer, 40 coke ovens, 18,000 tons. Fergus Conway & Shanles (local), W. A. Shanles, mgr. Cap. \$10,000. Democrat. Tunnels, 400 tons; hand, William Alred, sunt.

Lewiston..... Ry, Billings 529.

Park City ... Vellowstone C. M. O'Flaherty. Valley Creek. Tunnel, 1,200 tons; horse,

...Park Rocky Fork Coal Co., C. A. Spofford, prest.; Edward Edes, seey.; J. M. Fox, mgr., Cap. stk. \$2,000,000. Rocky Fork, Tunnels and slope, 225,000 tons; steam, electricity and horse. Wm. O'Connor, supt.

Ry. 529. Sandcoulee

Cascade Sandcoulee Coal Co., St. Paul, Minn., Great Northern Ry, Bldg. Henry R. Crocker, prest.; W. B. Roberts, sevy.; C. C. Hussey, treats.; Henry Burrell, mgr, and supt. Cap. stk. \$500,000. Sandcoulee. Tunnel, 300,000 tons, band and compressed air.

Timberline

Gallatin C. W. Hoffman, Timberline, Tunnel and slopes, 45,009 tons; steam, Jas. Anderson, supt.

#### COPPER

LOCATION OF MINE, RAILWAYS WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Butte City . . . Silver Bow Parrot Silver & Copper Co. Franklin Farrel, prest.; J. E. Gaylord, seey., treas, and mgr. Cap. stk. Ry. 239, 529, 776. \$1,800,000. Parrot, copper. Shaft; refractory; steam. Benj. Tibby, supt.

White Sulphur Springs . Meagher Ry. Townsend 529 (50 miles).

Spencer, Mayn & Heitman, North Paeific, Heckla, Jamison and Copper Duke, Shafts, hand,

# FIRE CLAY

Location of Mine or Bank, Railways, Water Routes, and Shipping Point. AND

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Anaconda. Deer Lodge Ry, 469.

Lost Creek Fire Brick & Silica Co., South Butte, Monta, 301 Utah ay. Onslow Peters, prest; John McMurry, seey.; Wm. Layton, treas.; George Fairweather, mgr. and supt. Cap. 8tk, \$300,000. Mountain Boy and White Mountain. Open ptt, 2,000 tons; water and steam; stone crusher.

Deer Ludge

Mullen Fire Brick & Tile Co., Helena, Mont. T. C. Power, prest.; J. R. Whitmire, secy., treas. and mgr. Cap. stk. \$25,000. Open pit, 5,000 tons; steam.

#### GOLD AND SILVER

Loca	TION OF	MINE.			
RAILWAYS, WATER ROUTES					
AND SHIPPING POINT.					
Town	AND	COUNTY.			

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Anaconda Ry, 469 (11 miles)

Deer Lodge Gunn & Todd, Mountain Vein and Caraboo, gold and silver. Shafts: refractory: hand.

Argenta . . . Beaver Head Ry, Dillon 776 (20 m.).

Beaver Head St. Louis & Argenta Mining Co., St. Louis Mo., 1431 N. Fifteenth st. Jos. Peters, prest, and treas.; on 776 (20 m.). J. Sturtz, seey. Cap. stk. \$1,000,000. Dexter and Snowdrift, gold, silver and lead. Shaft; refractory, steam. W. H. Dodley, supt.

Avalanche Meaghe (P. O. Canyon Ferry Ry, Helena 529. Meagher

Augusta, Lewis and Clarke L. S. & G. C. Goss, Silver King, silver and lead. Tunnel, 2 tons; han l. Ity, Great Falls 233.

A volt : Ry, 529.

Wesley Basye. Avalanche Gulch, gold. Placer, slope; hydraulic (developing).

Baker City Deer Lodge (P.O. Drummond) Ry. Deer Lodge 776 (12 mile.).

Deer Lodge, R. W. V. Mueller, Washington Gulch, Mont. Little Chief, gold, silver, copper and lead. Shaft: hand.

Forest Queen Mining Co. W. Beddig, prest.; M. H. Keith, seey.; J. E. Pause, treas.; Thomas Irvin, mgr, and supt. Cap.stk. \$250,000. Forest Queen, gold, silver and lead. Tunnel; free (developing).

Bald Butte Deer Lodge By, Marysville 529. Bald Butte Mining Co., Helena, Mont. Wm. Chumasero, prest.: B. H. Tatem, seey., treas, and mgr. Cap. Bald Butte Group, 5 mines, gold and silver. Shaft and tunnel, 12,000 tons; free; steam; 29 stumps. Thomas Sincox, supp.

Ry. Dillon 776 (30 m.).

BannackCity BeaverHead Bannack Ditch & Mining Co. F. L. Graves, prest, and treas.; A. F. Graeter, seey., mgr. and supt. Cap. Ry, Red Rock 776 Stk. \$100,000. Gold. Placer: hydraulic. Dyer Creek Placer Minling Co., W. Fischer, prest.; John C. Clarkson, seey, and mgr.; A. H. Lapham, treas, and supt. Cap. stk. 890,000. Dyer Creek, gold. Open pit; water.

Fred North & Co. P. Dark, gold, silver and lead. Shaft, 450 tons. Fred North, supt,

Meagher Ry, 293.

Ætna Mining Co., Great Falls, Mont. E. L. Bishop, prest.; James Lawler, seey, and treas.; Alex Anderson, agr. and supt. Cap. 8tk, \$750,000. Etna, silver and lead. Shaft and tunnel; refractory; steam.

Allice Mining Co., C. J. Heidenreich, prest., mgr. and supt.; Adolph Heidenreich, treas. Alice, silver and lead. Shaft and tunnel, 50 tons; refractory; steam.

Atlantic Milling & Minling Co., P. C. Box 655. Matthlas Galitzeck, prest., Chas. Willing, v.-prest., H. C. Shipkey, seey, and treas.; Henry Vorherr, mgr, and supt. Cap. 8tk, 84,600,000; Indiv. cap. 880,000. Guff of Barker, gold, Silver and fead., Stafat and tunnet; free, hand obevlopings.

Barker Mining Co. T. C. Power, prest.; J. L. Townsend, seey., A. Johnson, treas.; A. J. Cowin, mgr., and supt. Cap. stk. \$2,500,000. Block (P), silver and lead. Shaft and tunnel; refractory, steam.

Black Hawk Mining Co., Great Falls, Mont., Central av., Jesse L., Henry, prest.; Gen. W. Taylor, seey, and treas.; John Williams, mgr. (ap. 8tk. \$500,000. Black Hawk, Palmetto and Black Hawk No. 2, gold, silver, galena. Shaft and tumel, 3r Jons; refractory; land. M. C. Larkin, spill. Dry Fork Mining Co. C. H. Benton, prest.; A. E. Diekerman, v.-prest.; T. W. Thomson, sery.; Will Hawks, treas.; S. J. Merritt, mgr. and supt. Cap. stk. \$1,000,000. Etta, silver and lead. Shaft; free;

H. C. Foster & Co. Silver Bell, silver and lead. Shaft and tunnel, 15,000 tons; steam. Galena City Consolidated Mining Co., Great Falls, Mont., 220°, Central av. R. R. Ortman, prest.; W. B., Burleigh, seey, and treas. Cap. 8tk, \$1,000,000. Wild Bill, Riverside, Showshide and Queen of the Gulde, Silver, "Shafts and tunnel, tree and refractory; hand obeveloping.

Idyl Gold & Silver Mining Co., Great Falls, Mont. T. E. Collins, prest.; E. A. Ringwald, seey, and treas.; Peter Harrison, mgr. and supt. Cap. 8tk, 80,00,000. T. W., sliver and lead. Shaft and tunnel, too tons; refractory; hand.

Magnolla & St. Louis Mining Co., Jessie Henrey, prest.; James Marr, seey.; Louis Goslin, treas.; Michael C. Larkin, mgr, and supt. Magnolla, St. Louis, gold, silver, copper and lead. Shaft and tunnel; refractory and free; hand.

y & Edua Mining Co., Armington, Mont. J. T. Armington, prest., treas, and mgr.; Wm. Medpucen, seey. May, Edua, Annie May and Smelter, gold and silver. 4,000 tons; free, refractory. Geo. E. Price, supt. May & Edna Mining Co., Silver State Mining Co., Great Falls, Mont., 109 Central av. L. Schmidt, prest.; Wm. Alforecht, seey., treas, and ingr. Cap. stk. \$500,000. Lookout, silver and lead. Shaft and tunnel; free; hand.

Silver Tip Mining Co., Great Falls, Mont., 110 Central av. Thos, W. Thomson, prest.: Thos, Gabagan, seey, and treas; John L. Lee, mgr, and supt. Cap. stk, \$500,000. Silver Tip, gold, silver and lead. Shaft and tunnel, 3000 tons; free; hand. Waters, Northan & Wilson, Barker, Mont. Perry Lode, silver and lead, Tunnel and shaft; hand

Jefferson

Basin Mining & Concentrating Co., Helena, Mont. A. N. Spratt, prest.; F. N. Fletcher, seey, and treas.; H. W. Child, ngr. Cap. stk. \$500,000. Hope, gold, silver and lead. Shaft, 20,000 tons; refractory; steam. E. C. Gilbert, supt.

Kane, Potting & Judge. Thomas Kane, mgr. Deer Lodge, gold, silver and lead. Tunnel, 600 tons.

John C. Rand & Co. Red Rock, gold, silver and lead. Shaft and tunnel, 365 tons; free and refractory; Smith & Moore. Cap, \$5,000. Black Rock, gold, silver and lead. Tunnels and shafts, 20 tons: refractory;

Weser Mining Co. Henry Bratnoben, prest.; David Marks, seey.; L. G. Phelps, treas.; H. E. G. Winter, ugr. Cap. stk. \$400,000. Weser, gold, silver and lead. Shaft and tunnel; refractory.

Bear Park, Meagher (P. O. Utica) Ry, Bar-ker 293 (20 miles).

Beur Park Mining Co., Great Falls, Mont., 312 Central av. J. B. Steflen, prest.; John Conolly, seey.; Edward O'Relly, treas.; Edgar Boling, ungr. and supt. Cap. stk, 81,00,000. Hulson, Bellevue, Broncho and Utea, gold, silver, lead and copper. Shaff and tunnel; free; hand.

rtown... Deer Lodge Rv. Bear's Mouth 529.

Loomis & Stone, Cap. \$5,000, Chemmantha, gold. Placer, 200 tons; steam; mill.

### GOLD AND SILVER (CONTINUED)

	GOLD AND SILVEN-GOVINGED
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUFFRINTENDENT.
Big Timber Park Ry, 529 (60 miles).	Crown Mining Co., Billings, Mont. Samuel F. Mitchell, mgr. Crown, gold and silver. Shaft; free; hand; 3 stamps.
	Hicks Park Mining Co. C. S. Busha, prest.; Benj. Umer jr., secy, and treas.; John Renfro, mgr. and supt. Cap. stk. \$25,000. Hicks Park, gold. Placer (developing).
	Mamie Mining Co. A. D. Sidle, prest.; Geo. R. Urner, secy. Cap. stk. \$1,000,000. Mamie and Boodle, gold and silver. Shaft; free; steam; 5-stamps.
**	Poor Man's Mining Co. A. N. Hawley, prest, mgr. and supt.: H. M. Allin, seey, and treas, Cap. stk. \$2,500,000. Poorman, gold and silver. Shaft; free; steam; 3 stamps.
Birch Creek, Meagher (P. O. White Sulphur Spgs.) Ry. Helena 529.	Birch Creek Mining Co. J. C. Downton, prest, and supt.; A. Bomgard, seey, and treas.; J. G. Pickering, mgr. Cap, stk, \$300,000. Cleveland, Carrie and Ready Cash, gold and silver. Tunnel and shafts: free and refractory; horse
Blackhawk Meagher Ry, Livingston 529.	W. A. Smith, mgr, and supt. Cap. stk. \$500,000. Alice, Bondholder, Alvona and Annie Maud, silver and lead. Shaft; free; steam.
* *	Black Hawk Mining Co., Martinsdale, Mont. J. M. Smith, prest.; N. B. Smith, seey.; James T. Wood, trens.; W. A. Smith, mgr. Cap. stk, \$500,000. Blackhawk, Mohawk and Altha, sliver and lead. Shaft, free; horse (developing).
** .	Donnan & Fitzpatrick. John Donnan, mgr. and supt. Cap. \$10,000. Como and Tiger, silver and lead. Shafts; free; hand.
**	Grant Mining Co., Bozeman, Mont. E. E. Fowler, prest, and mgr.: F. S. Webster, seey.; W. H. Poor- nan, treas. Cap. stk. \$3,000,000. Waterion and International, silver and lead. Shaft; free; horse and water, J. M. Lyons, supf.
** .	Legal Tender Mining Co., White Sulphur Springs, Monl. Wm. Parhery, prest.; D. E. Folson, seey.; John A. Woodson, Ireas.; V. J. McPherson, mgr, and supt. Cap. stk. \$5,00,000. Legal Tender and Aurora, silver. Slope and shaft; steam; free.
	Trimmvirate Mining Co. N. B. Smith, prest.; John L. Fraser, seey, and treat.; Elmer E. Phillips, mgr. and supt. Cap. stk. \$600,000. Big Mogul. Little Mogul and Hodges Faction, silver, lead and iron. Shaft; hand (developing).
Boulder Jefferson (P. O. Boulder Valley) Ry, 529, 293.	Finney & Bedell. Wm. T. Sweet, prest.; Will E. Bedell, secy.; Hon, Judge Buck, treas.; Frank L. Finney, mgr. and supt. Cap. 850,000. Scloto, gold, silver and lead. Shafts, 50 tons; hand; refractory.
** ************************************	Rocky Mountain Mining Co. Jesse Patterson, prest, and nugr.: Frank Bernatz, seey.; W. P. Hoopes, treas. Cap. stk, \$300,000. Hoosier Boy, silver and lead. Shaft; steam.
Butte City Silver Bow Ry, 529, 293, 469.	Amy & Silversmith Consolidated Mining Co. George W. Irvin, prest, and mgr; Joseph V. Long, seey.; M. B. Brownlee, treas. Cap.stk, \$2,000,000. Amy, gold and silver. Shaft, 1,000 tons; refractory; steam.
** **	Anaconda Mining Co. J. B. Haggin, prest.; F. E. Sargeant, secy.; Marcus Daly, mgr. Cap. stk. \$25,000,000. Anaconda Mine and 65 other claims, silver and copper. Slatts, 1,200,000 tons; refractory; steam, water and electricity; mill. Patrick Kane and Joseph Laird, supts.
** :	Arlington Mining Co., New York City, 15 Wall st. Geo, C. Magoom, prest.: Geo, F. Crane, seey, and treas.; C. W. Goodali, mgr., and supt. Cap. stk. \$200,000. Star West and Mountain Boy, gold and sliver. Shaft, 2,000 tons; refractory; steam.
** .	Blue Bird Mining Co., Ltd. F. Van Zandt, prest.; W. G. Didrichsen, seey, and treas.; W. H. Keller, mgr. Cap. 8tk, \$1,000,000. Blue Bird, silver. Shaft, 50,000 tons; refractory; steam; 80 stamps. W. W. Adams, supt.
	Boston & Montana Consolidated Copper & Silver Mining Co., Boston, Mass., Sears Building. A. S. Bige- low, prest.: Thos, Nelson, seey, and treas.; Thos, Couch, mgr, and sont. Cap. stk. 83,25,000. Monnatain View, East and West, Colins and Solders, silver and copper, Shaft, 190,000 tons; steam, furnasci
	Butte & Boston Mining Co., Boston, Mass., Sears Bldg. S. M. Crosby, prest.: A. S. Bigelow, seey, and trens.; C. H. Palmer, mg. Cap. 53, 55,000,000. Butte and Boston, sliver and copper. Shafts, 162,000 tons; free and refractory; steam; 46 stamps. Jas. Bootson, supt.
11. 14.	W. A. Clark, cor. Broadway and Main sts. R. G. Brown, mgr. and supt. Black Rock, silver. Shaft, 1,600 tons; refractory; steam.
(i) · · · ·	Colorado Smelting & Mining Co., Denver, Colo., Boston Block, Seventeenth st. N. P. Hill, prest.; H. R. Wolcott, Seev. and treas.; Henry Williams, mgr.; C. W. Goodale, supt. Cap. stk. \$1,000,000. Gagnon, Caledonia, Nettle, Burlington and others, gold, silver and copper. Shaft, 60,000 tons; free and refractory, steam.
	Comanche Mining Co., 29 W. Broadway, P. A. Largey, prest.; Chas. S. Warren, secy.; L. A. Mautle, trens.; Geo. H. Tong, mgr. and supt. Cap. stk. \$3,000,000. Comanche, silver and copper. 60,000 tons; refractory; steam.
**	Electric Mining & Reduction Co., 16 N. Main st. B. C. W. Evans, prest.; Ben. F. Oreutt, seey, and treas.; J. H. Cradlebaugh, mgr. Cap. stk. \$450,000. Electric Nos. 1, 2, 3 and 4, gold. Shaft; free; hand.
41	L. Frudenstine, 403 W. Mercury st. Germania, gold and silver. Shaft, 5,000 tons; refractory; steam.
	Glengarry Mining & Milling Co. W. R. Kenyon, prest.; H. C. Camey, seey, and mgr.; J. V. Long, treas. Cap. slk, \$1,000,000. Glengarry, gold and silver. Shaft, 1,500 tons; refractory; steam.
**	John A. Leggat, 207 Montana St., P. O. Rox 115. Cap. \$100,000. Gambetta, Victoria, Eureka and Collins, gold, silver and copper. Shafts, tunnels and slopes, 25,000 tons; free, retractory; steam, water, horse and hand.
	Montana Mining, Loan & Investment Co., cor. Park and Main sts. Henry L. Haupt, prest, freas, and nigr.; Chas. J. Stevenson, seey. Cap. stk. \$12,000,000. Fourteen claims, gold, silver and copper (developing).
	The ducking Mining Co. P. (1) Pur. 107 F. C. Laurent, prost, and mary, H. P. Mills, Seev. W. C. King.

The Ophir Mining Co., P. O. Box 427. F. G. Lamson, prest, and ugr.; H. R. Mills, secy.; W. C. King, treas. Cap. stk. 81,500,000. Ophir, gold and silver. Shaft, 4,000 tons; refractory; steam. W. C. Kitto, upt.

### GOLD AND SHLVER (CONTINUED)

GOLD AND SILVER (CALLED)		
Location of Mine, Railwats, Water Routes And Shipping Point.  Name of Company of Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,00 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.		
TOWN AND COUNTY.	OF TOWER COED, STAME MILES, LICE, and Plante Of Marie Official Lines, Lines, Lice, and Company of Marie Official Lines, L	
Butte City, Silver Bow $(Continued.)$	Original Mining Co., Broadway and Main sts. W. A. Clark, prest.: Bryan Irvin, seey.; A. J. Johnson, trens.; R. G. Brown, mgr., and supt. Cap. stk, \$150,000. Original, silver and copper. Slope, 4,000 tons; refractory; steam.	
**	Vanore Mining Co., 16 N. Main st. B. C. W. Evans, prest, and mgr.; Ben. F. Orentt, seey, and treas, Cap. 8tk, \$1,000,000. Golden Crown, gold. Shaft: free; hand.	
Cable. Deer Lodge Ry, Anaconda 469 (15 miles).	Cable Mining Co. James C. Savery, prest, and supt. Cap. 8tk, 8500,000. Cable, gold. Tunnel, free, steam; 30 stamps.	
Canyon Ferry . Meagher Ry, Helena 293, 529.	Hell Gate Mining Co., Helena, Mont., 1600 Butte av. W. H. Mackey, prest.; W. R. Barnes, seey.; John Oaks, treas., S. Barnes, mgr. Cap. stk. 810,000. Hell Gate, gold. Placer.	
*	Van Camp Mining Co. Henry Van Camp, prest, secy, and mgr.; John S, Buswell, treas, Cap, stk, \$75,000. Cooper Gulch, gold. Placer; hydraulic.	
Carter, . Missoula Ry, Spring Gulch 529,	El Dorado Mining Co., Missonia, Mont. M.G. Rutherford, prest, mgr. and supt. H. R. Heacock, secy, and treas. Cap. stk. \$500,000. El Dorado and Harrison, silver and lead. Shaft and finnel, 3,000 lons; hand.	
**	Silver Galema Muring Co., Missouda, Mont. J. H. B. Foster, prest.: E. A. Winstanley, seey, and treas.: J. M. Hargrave, mgr. and supl. Cap. stk. \$1,000,000. Silver Galena, silver and lead. Tunnel: refractory; hand.	
Castle Meagher Ry, Livingston 529 (60 mlles).	W. A. Smith, mgr. Cap. 8tk, \$5,000,000. Bondholder, Alice, Annie Maud and Alvona, silver and lead, Shaft; refractory; steam (developing). W. A. Smith, supt.	
	American Mhing Co. J. M. Hensley, prest.; J. P. Rhonds, seev.; J. A. Rensley, trens.; J. F. Hensley, ngr. Cap. stk, \$5,000,000. American Challer and Vera, gold, silver and lead. Tunnels and shafts; refractory.	
	Anna C. Minling Co., Livingston, Mont. J. C. Savage, prest., J. C. Vilas, seey, and freas.; J. V. Nye, mgr, and supt. Cap. stk. \$1,006,000. Anna C., silver and lead. Tunn d. 200 tons; retractory; steam.	
	Armada Minling Co. J. H. Kane, prest., L. Peavoy, seey., W. H. Barnes, treas., W. H. Meteathe, mgr., and supt. Cap. stk. 8250000, Armada, Smuggler, Little and Sleeper, silver, and lead. Shafts; steam (developing).	
	Babeock & Miles. Silver Eagle, lead and silver. Shaft; horse (developing). P. H. Tooly, supt.	
	California & Hendriy Mining Co. F. L. Hensley, prest., N. E. Benson, seey., J. E. Hensley, treas, and mgr. Cap. 8tk, \$5,000,000. California, silver and lead. Shaft, 1,000 tons; refractory; steam. T. W. Steward, supt.	
**	Cumberland Mhiling and Smelting Co. Chas. E. Severance, prest.; R. H. Mitty, seey.; Jas. L. Fraser, trens.; A. J. Huncke, mgr. and supt. Cap. 8th, \$5,000,000. Cumberland and others, silver and lead. Shaffs, 15,000 tons; refractory; steam; smeller, 28tacks.	
	Granite Castle Mining Co., White Sulphur Springs, Mont. Louis Rotwitt, prest., John Rees, seey. Cap. stk, \$500,000. Granite Castle No. 2, silver. Shaft, hand (developing).	
	Hensley Bros. Morning star, Belle of the Castles and Lamar, gold, silver, copper and lead. Shatts and tunnels; refractory, steam developing).	
	Lenox Mining Co., Livingston, Mont. W. D. Elifs, prest., treas, and mgr.; Geo. A. Ellis, secy. Golden Eagle, gold, silver and lead. Shatts; horse. S. T. Simonsen, supt.	
**	Little Dot Mining Co. J. M. Kumpe, prest., N. E. Benson, seev.; Mrs. Dottle Donovan, treas., mgr. and supt. Cap. 8tk, \$500,000. Little Dot, lead and silver. Shafts, free smelling, hand.	
**	Mary Anderson Mining Co. H. W. Rowlen, prest., H. Burton, seey.; C. A. Wastum, treas., W. A. Boots, ingr. and supt. Cap. stk. \$2,500,000. Mary Anderson, gold. Shaft, free.	
**	Elmer E. Phillips. Gold, silver and copper. Shaft and tunnel; refractory; hand (developing).	
	Joe Reed, Missouri, gold and silver. Shaft; refractory, hand.	
**	Solid Silver Mining Co., Melville, Mont. Mr. Barry, prest.; P. Van Cleod, seey, and treas.; Thos. Hughes, mgr. and supt. Cap. stk. \$2,500,000. Solid Silver, silver and lead. Shaft; refractory; horse.	
**	Winged Crescent Mining Co., P. O. Boy 9. Lee Simonsen, prest,; S. T. Simonsen, seey, and treas; O. Hooda, mgr. Cap. 8tk, 850,000. Winged Crescent, gold, sliver and lead. Shaft and funnel; free smelling; horse.	
**	Vellowstone Mining Co. Wm. Parberry, prest., J. E. Hensley, seey, and freas., R. W. Peters, mgr. Cap. stk. \$2,500,000. Vellowstone, silver and lead. Shart, refractory, steam, blast furnace, 12,000 tons. N. J. Tredlininch, supt.	
Cavendish Beaver Head Ry, Red Rock 776 (25 miles).	ing .	
	Golden Leaf, I.G., London, Eng., 29 Martha's Jane, E. C. J. S. Wallace, prest; H. C. Richardson, sery and freas; J. H. Longmaid, mgr. Cap. sik, \$1,750,00. Golden Leaf, gold and silver. Tunnel, shaft and placer, 13,000 fors; free; steam; 26 stamps. Thos. Williams, supt.	
Champion Deer Lodge Ry, Deer Lodge 469,	Champion Mining Co., Deer Lodge, Mont. N. J. Bielenberg, prest, and mgr.; Lew. Coleman, seey.; H. H. Zenor, trens. Cap. 8tk. 81,065,658. Lillie, May. Augusta and Champion, silver. Shaft, 44,000 tons, free; steam; 20.8imps. E. T. Stoughton, suy.	
	21 of the state of	

Chico Park John C. Caldwell, North Star, gold, Shaft (developing), Ry,Emigrant 529(10 m.).

Win, F. Gray, Rack Pay Mines 1, 2 and 3, Butte and Gopher Mines, gold and silver. Free; hand and little developing.
W. T. Hobbs, St. Julien, gold, silver and bismuth. Tunnel; refractory.

New Silver Crown Mining Co., Chicago, Ill., 86; Tacoma Bildg. L. Gallitzki, prest.; J. C. Shanbut, seey.; R. T. Kennon, treas.; Edwin Simpson, mgr. and supt. Cap. stk., 85-0,000. New Silver Crown, silver. Shaft, tree and refractory; steam.

Town

Clarke

LOCATION OF MINE.

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

COUNTY

#### GOLD AND SILVER -(CONTINUED)

necy – Jefferson – Buckeye Gold & Silver Mining Co., Helena, Mont. – A. J. M. Hosom, prest.; Olof W. Anderson, secy, and treas; R. E. De Camp, v.-prest. Cap. sik, \$550,000. Government Bond, Clancey and Dan Tucker, gold and silver. Shaffs and drifts; free; steam developing). E. Redding. King Solomon, silver and lead. Shaft; refractory; horse,

rke Deer Lodge P. O. and Ity, Phillips-jurg 529. Bi-Metallic Mining Co., St. Louis, Mo., 116 Laclede Bldg. M. Rumsey, prest, and treas.; F. J. Casey, seey, Cap., stk, \$5,000,000. Bi-Metallic, silver. Slatt, 50,000 tons; refractory; steam; 100 stumps, 34 pains, 17 settlers, 8 roosters, 4 dryer. W. Thomas Hart, such

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

. Park Hudson & Blair, Granite, Mont. Cap. \$10,000. Morning Star, gold, silver and lead. Tunnel, 5 tons; free. S. R. Hudson, mgr, and supt. Krippner, Hoopes & Stands, Cap. \$30,000. Old Faithful, Gertie G. No. 2, Lilly, Moonlight and Cora K., gold, silver and lead. Shaft and tunnels, 45 tons; refractory; hand. Jas. M. Krippner, supt. Montana Bismuth Mining & Milling Co., Helena, Mont. M. W. Johnson, prest.; J. W. Eddy, seey.; Thos. Goodwin, treas.; W. J. Hobbs, mgr. and supt. Cap. stk. \$2,500,000. Queen Bee, Minnie and Tippe-camoe, gold. Timnels; refractory. Six Mile Placer Co., Livingston, Mont. Marchington & Dyer, proprs. Cap. \$10,000. Six Mile, gold. Placer;

George Strobel, Cap. \$2,000. Blue Rock, silver and copper. Shaft and tunnel, 100 tons; free; horse.

Durg 529.	settlers, 8 roasters, 4 dryers. W. Fhomas Hart, Supt.
Clinton Missoula Ry, 529.	Chester Mining Co., R. J. Wemyss, prest, and treas.; W. A. Logue, secy., mgr. and supt. Cap. 8tk, \$500,000. Chester, silver. Shaft; refractory; steam.
Combination Deer Lodge Ry, Phillipsburg 529 (9 miles),	Combination Mining & Milling Co., St. Louis, Mo., 432 Laclede Bldg, C.D. McLure, prest.; J. B. Mellor, seey; A. Hershfield, treas; F. W. Sherman, mgr, and supt. Cap. stk, \$300,000. Combination, silver. Shaft and slope 24,000 tons; free; steam; 20 stamps.
Ry. Wickes 293, 529.	Erickson & Ortling, Helena, Mont. Independent, gold, silver and lead. Shaft, 100 tons; refractory; horse.
Cooke Park Ry. Cinnabar 529 (60 m.).	Catherine Noble Mining Co., Minneapolis, Minn., 427 Nicollet av. C. P. Luse, prest.; C. P. Sutherland, secy.; Win. Z. Mead, treas.; David Noble, ngr. Cap. stk, \$1,500,000. Solid Silver, Rich Strike, Treadwell, Lady Elgin, Arabian and Alaska Diamond, gold, silver and lead. Shaft, tunnel; refractory; hand developing). David Noble, supt.
	General Office Mining and Reduction Co., St. Paul, Minn. S. L. Moore, prest.; T. S. Woodruff, seey.; C. A. Clark, treas.; David Noble, mgr., Cap. stk, \$2,000,000. Mountain View and 9 other mines, gold, silver and lead. Tunnels and shafts; refractory.
**	Vinnedge Mining Co. Wm, J. Vinnedge, prest.; Mrs. Belle V. Drake, seey.; Alvin P. Vinnedge, mgr. Cap. stk, \$3,000,000. Silver King, Little Kid and 3 others. Tunnel (developing).
Deerfield Fergus Ry, Big Sandy 293 (100 miles).	Baylies, Riser & Arnold. Anderson and Union, gold, silver, lead, copper, Shaft and tunnel, 100 tons; free; hand.
Ry. Great Falls 293.	North Moccasin Mining Co., Lewistown, Ment. J. L. Harmon, prest, and supt.; W. G. Norman, seey, and trens.; J. H. Norman, ngr. Cap. stk. \$200,000. Gold, sliver and lead. Shaft and tunnel; refractory; horse developing).
Deer Lodge - Deer Lodge Ry, 469,	Emery Mining Co. N. J. Bielenberg, prest, and mgr.; H. H. Zenor, seey, and treas. Emery, gold and silver. Shaft, 3,000 tons, refractory; steam. A. C. Cabel, supt.
**	Lion Mining Co., Jas. H. Mills, prest.; Geo. S. Miller (seey.; J. B. McMaster, treas.; Sam Taylor, mgr. and supt. Lion Mine, gold and silver. Shaft; free; steam.
Deweys Beaver Head Ry, Divide 776 (6 m.).	Jay Hawk & Lone Pine Consolidated Mining Co., Ltd., London, Eng., Dashwood House, Old Broad st. The Hon. Ponsonby, prest.; W. J. Lavington, seey.; Honry Prideaux, mgr. and supt. Cap. stk. \$1.425,000. Lone Pine, Jay Hawk, silver. Shafts and slopes, 15,000 tons; free; steam; 2 mills, 25 stamps.
**	J. Benton Leggat. Argyle, silver. Shaft; free; steam and horse. James Gallogly, supt.
Diamond City . Meagher Helena, 293, 529,	John M. Norris. Montana Regent and 2 others, gold. Tunnels and shafts: tree, refractory.
Dillon Ry, 776,	Polaris Mining & Milling Co., Helena, Mont. J. E. Knapp, prest.; C. G. Currier, secy.; O. T. H. Allen, nigr, and supt. Cap. stk. \$150,000. Polaris Mine, silver. Shaft and tunnel, 2,000 tons; steam.
Drummond Deer Lodge Ry, 529 (40 miles).	Hercules Mining Co., Butte City, Mont. John F. Firch, prest, and mgr.; G. H. Macdougall, seey. Cap. stk. \$2,000,000. Hercules, silver and copper. Tunnel; free and refractory (developing). A. H. Hartt. supt.
Duncan . Gallatin Ry, Belgrade 529 (16 m.),	Alf Johnson. Black Hawk, silver and lead. Slope; refractory; hand (developing).
	M. E. Strickler. Oro Grand and Jo Dandy. Shaft and tunnel: refractory.
Eddy Missonla (P. O. Missonla) Ry. 529.	Black Bell & Quantrell Mining Co. D. D. Bogart, prest.; Frank Bogart, seey.; N. J. Myers, treas.; A. W. Moore, mgr., and supt. Cap. stk. \$250,00. Black Bell, Quantrell, Surprise and Famile E., gold. Tunnel; refractory; water (developing).
Elkhorn Jeffer on Ry, 529.	Dimstone Mining Co., Helena, Mont. Chas, A. Clarke, prest.; John W. Eddy, secy.; Chas, W. Cannon, treas. Cap, stk. \$1,000,000. Dimstone Mine, gold, silver and lead. Slope, 200 tons; refractory; hand.
	Elkhorn Mining Co., Ltd., London, Eng., 6 Drapers' Gardens, E. C. A. G. Brand, prest, 'Chas, Pakeman, seey, John W. Phummer, ngr. Cap, stk. 81,000,000, Elkhorn, silver and lead, 'Shart, slope, 18,000 tons; free and refractory, steam; 25 stanups, 'Chas, A. Molson, supt.
Elk Park Jefterson Ry, 293,	Larson, Talus, Hyman & Martinson, Butte, Mont. Silver King, gold and silver. Tunnel, 150 tons; refractory.
Elliston Deer Lodge Ry, 529.	William Dyer, Helena, Mont. Ontario, gold and silver. Tunnel and shaft, 3,000 fons; refractory; steam, Wm. Job, supt.

#### GOLD AND SILVER-(CONTINUED)

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LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF FRINCIPAL OFFICE, NAMES OF OFFICEDS, CAPITAL STOCK, NAME OF MINE, KIND OF USE, KIND OF MINE, ANNUAL OUTSUT IN TORSOF 2009 POUNDS, KIND OF POWER USED, STRAM MILLS, ETC., AND NAME OF MINE SUFFRINCEMENT.	
TOWN AND COUNTY.	Or a virtue comply craime manning material and statement of manning materials.	
$\begin{array}{ccc} \text{Elliston.} & \dots & \text{Deer Lodge} \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & $	Grand Republic Mining Co., Helena, Mont., 20 Pittsburg Block, J. C. Hallum, prest.; Chas. A. Cook, seey, and treas. Cap. stk, 85,000,000. Lilly and Monarch, gold and silver. Shafts and tunnels, 10,000 tons; sterm.	
. "	Will O'Keefe, Cap. \$75,000. Alma, Clan Alpine, Jennie Hatfield, Alice Cooper, Jessie Wear and Water Right Mines, gold and silver. Shafts and tunnels.	
**	Richmond Mining Co., Miles City, Mont. C. B. Towers, prest.; J. R. Collins, seev.: H. B. Wiley, treas., Win. O'Keefe, jug; and supd. Cap. stk, \$1,000,000. Richmond, Nellie Blake and Eureka, gold and silver. Tunnel; free and refractory hand developing.	
	Wall Street Mining Co., Helena, Mont. Hiram E. Burtch, prest, and treas.; John W. Eddy, seey. Cap. stk. 81,000,000. Mary Ann, Racine and Rising Sun, gold and silver. Tunnel: refractory, hand developing).	
Empire Lewis and Clarke Ry, Marysville 529.	Golden Leaf Co., Ltd., London, E. C., Eng., 29 Martin's 'lane, J. Stewart Wallace, prest., J. Ball, seey, and treas,: J. Henry Longmaid, mgr., Cap. 81,750,000. Empfre, Smithville, Whit-poor-will, Rell Ray and Glesson, gold. Shafts and tumels, 5,000 tons, free; steam; as-stampulli, Henry Northey, supt.	
Feeley Silver Bow Ry, 776.	Kirley Bros. & Goodwin, Goodwin and Sage Hen, gold and lilver. Shaft and tunnel; free; horse and hand edeveloping).	
Fin Ry, 529, Jefterson	lead. Shatt, 1,200 tons, refractory, hor e. Miles Cavanaugh, supt.	
Flint Deer Lodge (P.O.Deer Lodge City) Ry, 527 (12 miles).	Volcano Gold Mining Co. A. H. Mitchell, prest., Lew Coleman, seey.; Willard Bennett, treas. Cap. stk. \$6,500,000. Volcano and Gold Leaf, gold and silver. Tunnel and shaft; free, steam (developing).	
Florence Missoula Ry, 529.	Orcutt, seey.: Geo, H. Babcock, mgr. Cap. stk. \$5,000,000. Gold. Placer, water.	
Forest City Missoula By, Iron Mountain 529.		
FrenchBar Lewis&Clarke (P. O. Canyon Ferry) Ry. Helena 293, 529 (14 miles).	Joel Frakes. Fr. kle, silver. Shafts and tunnels, to tons: refractory, hand.	
**	Missoula Gold & Sapphire Co., Missoula, Mont. J. H. B. Foster, prest., F. F. Ellis, vprest., George H. Clynick, seey, and treas.; T. D. Farrow, ngr. Cap. stk. 82,500,003. Missoula, gold, sapphire. Placer developing.	
Galen Meagher Ry, Great Falls 292, 293,	Dry Wolf Mining Co., Great Falls, Mont. Stephen Pierse, mgr. Gold Dust, silver and lead. Shaft and tunnel; free; hand.	
	More & Graham. Cap. \$10,000. Patcholas, Jay Bird and Queen, gold, silver and lead. Tunnel, 600 tons, free, hand. F. E. More, supt.	
Gardiner Park Ry, Cinnabar 529 (12 in.).	Crevasse Mountain Mining Co., Helena, Mont. P. F. Barr, prest.; Engene Underwood jr., seey.; E. D. Edgerfon, treus, W. E. Jewell, mgr. Cap. 8tk (S. Moodono). Crevasse Mountain, gold. Shafts, tunnels and slopes, 10,000 ton; free; steam; 20-tunp mill. John Edgerfon, sup.	
**	John T. Knowles, Gold, Placer; hand,	
"	W. J. Malin & Co., St. Louis, Mo., 599 Washington av. Tower Grove and Pratt, gold and silver. Tunnel and shatt; free and refractory. W. J. Malin, supt.	
Glendale Beaver Head Ry, Melrose 776(20 m.).	G. B. Conway, Pedo, gold. Slope and tunnel, free; water (developing).	
* 1	Hecla Consolidated Mining Co., Indianapolis, Ind., Wright's Block. John Thomas, prest.; J. C. McCutcheon, seey.; J. C. Wright, treas.; H. Knippenberg, mgr. Cap. stk. \$1,500,000. Eleven Mmes, gold and lead, Slope, 18,000 tons; refractory; steam and water, 3 water jacket furnaces. Samuel A. Barbour, supt.	
44 46	Terry Bros. Park View, silver and lead. Tunnel, 2 tons: retractory; hand. David Terry, supt.	
Granite Deer Lodge Ry, Phillipsburg 529.	Grantte Monntain Mining Co., 8t. Louis, Mo., Room 818 Security Ridg. L. M. Rumsey, prest, Thus, O. Hyman, seey.; Paul A., Fusz, treas. Cap. 8tk, \$10,000,000. Granite Monntain, silver, stats and tun- nels, 87,000 louis; refractory and tree milling; steam; 3 mills, 180 stamps. Thus, Weirr, gen. supt., Werner, Tagler, asst, supt.	
Grantsdale Missoula Ry, 529,	Albert W. Bradford, Martha Glendenning, gold and silver. Open pit; refractory; hand (developing),	
Great Falls Cascade Ry, 293, 292,	Blue Dick & Cascade Gold and Silver Mining Co. P. H. Hughes, prest, and mgr.; G. W. White, seey, and treas. Cap. stk. \$1,000,000. Blue Dick and Manitoba, silver and lead. Tunnel, 200 tons. J. A. Carrier, supt.	
**	Helena & Etna Mining Co., P. O. Box 500. Dauglas Martin, prest.: G. D. Taliant, seey.: James Lawler, treas. Cap. stk. \$300,000. Helena and Etna, gold, silver and lead. Free [developing].	
	Queen Esther Mining Co., P. O. Box 67, S. P. Bowman, prest, W. T. Honston, seey, and treas, Oscar Olinger, mgr. and supt. Cap. 8tk. \$10,000. Que in Esther, gold, silver, lead and fron. Tunnel; tree, hand (developing).	
(11 miles),	Glichrist, English & Fish, Anaconda, Mont. Levi P. Mortbu, gold, silver and lead. Shaft, free; han ledeveloping). Watter R. Fish, supt.	
Helena, Lewis and Clarke Ry, 293, 529,	Good Lack Mining Co., P. O. Boy 551. Geo, C. Swallow, prest; John W. Eddy, seey, and mgr.; Albert S. Hovey, treas. Cap. 8th, \$1,000,000. Good Lack, lead and silver. Shafts; refractory, horse developings. II. K. Harvey, supt.	

Meteor Mining Co. A. J. Seligman, prest.: John W. Eddy, seey., A. M. Holt, treas. Cap. 8tk, \$1,000,000. Meteor and Star of the West, gold, silver and lead. Tunnel: refractory; hand developing.

8t. Helena Consolidated Gold & Silver Mining Co., Main st. John N. O'Brien, prest, and mgr.: E. W. Kniight, v-prest; E. G. Worden, seey.; T. H. Kleinschmidt, treas. Cap. 8tk, \$5,000.00. 8t. Helena, Alpine Chief, Yorktown, electedand and Levington, Extension, gold, silver and copper. Shafts: free and retractory, hand developing.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

### GOLD AND SILVER (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Helena . Lewis and Clarke (Continued.)	Sapphire & Ruby Co. of Montana, Ltd., London, Eng. Placer, gold and gems. Capt. Wood, supt.
" e "	Whittateh Union & Melntyre Gold Mining Co., Journal Bidg. W. G. Bailey, prest.; G. E. Boos, seey.; W. H. Clark, treas.; Michael Cooney, mgr. and supt. Cap. sik, \$300,000. Whittateh Union and Melntyre, gold. Shaft, 15,000 tons; free; steam; Huntington mill.
Helmville Deer Lodge Ry, Avon 529 (35 m.).	American Silver, Copper & Refining Co. Chas, Cooper, prest, and mgr.: Jas. E. Marcum, secy.; Adrian Pritchard, treas. Cap. stk. \$16,000. Chance, silver and copper. Shaft; refractory.
** **	Best Bros. Northern View and 2 others, gold and silver. Slope, open pit, placer, 500 tons; refractory; steam; 5 stamps. Geo. W. Best, supt.
** **	Delamater & Odonegon. Cap. stk. \$3,000; indv. cap. \$1,500. Hobby Horse, Lost Carbon and Delamater, gold, silver and copper. Shafts and slope: free and refractory; hand (developing).
HeronMissoula Ry, 529 (3 miles),	Jules Norbee. Cabinet King, silver and lead. Tunnel (developing).
Hughesville Meagher Ry.Barker 293 (11 2 m.).	tons; refractory; steam. Wm. C. Stanley, supt.
" "	Loretta Gold & Silver Mining Co., Milwaukee, Wis., 462 Broadway. John M. Connolly, prest.; Chas. R. Groth, seey.; James Foley, freas.; M. J. Dunn, mgr, and supt. Cap. stk, \$500,000. Tiger Mine, gold, silver and lead. Tunnel, 7,000 tons; hand.
** ***	Van Arsdalen & Carpenter. Emerald, gold, silver and lead. Tunnels; refractory.
Independence Park Ry. Big Timber 529 (60 miles).	Independence Mining Co. H. E. Leveaux, prest, and mgr.; Jas. H. Hoyt, seey.; Jas. Pickands, treas- Cap. stk. \$500,000. Independence, gold and silver. Shaft and tunnels; free; steam; mlll, John Anderson, sapt.
Jay Gould, Lewis & Clarke P. O. and Ry. Silver City 529 (20 miles).	Jay Gould Mining Co., Helena, Mont. John T. Murphy, prest.; R. O. Allen, seey.; Jos. P. Woolman, treas.; M. E. Downs, mgr, and supt. Cap. stk. \$2,000,000. Jay Gould, gold. Tunnel, 10,800 tons; free; steam; mill, to stamped.
KalispellMissoula Ry. 293,	South Fork Mining & Milling Co. Chas. Burton, prest.; Henry W. Heideman, seey, and treas.; P. V. Snith, ngr, and supt. Cap. stk. \$1,000,000. Homestake and Silver King, silver and copper. Tunnel; retractory and free; water (developing).
Lewistown Fergus Ry, Billings 529,	Norman, supt.
Libby Missoula Ry, Kootenai, Idaho, 529 (8 miles),	Ohio Mining Co., McAuley, Idaho, Thos. T. Cosgriff, prest.; Garley Jones, seey.; Daniel Cosgriff, treas.; Jas. P. Ewing, mgr. Cap. stk. \$100,000. Uncle Sam and Companion, silver and lead. Tunnel, 6,000 tons; refractory; steam and hand. John Cosgriff, sup.
	Snow Shoe Mining Co. H. G. Lougee, prest.; B. Parmenter, secy.; A. F. Dunlap, treas.; J. G. Abbott, mgr. Snow Shoe, gold, silver and lead. Tunnel; refractory; hand (developing).
Lima	Red Rock Sand Stone Quarry & Mining Co. Edwin M. Jacobs, prest.; L. C. Ford, secy.; Lawrence Sell-strom, treas. Cap. stk. \$300,000. Red Star, silver and red sandstone. Open pit.
Livingston Park Ry, 529 (3 miles),	Mill Creek & Emigrant Mining & Smelting Co. Geo, T. Chambers, prest, and mgr.; H. J. Miller, seey, and treas. Cap. stk. \$3,000,000. Wisconsin, Vinnie M., Sadie C. and Gertie G., silver. Tunnel, refractory. W. P. Mulholland, supt.
Logging Creek. Meagher Ry, 298 (P. O. Morris).	Printers' Mining Co., Great Falls, Mont. S. J. Kinsey, prest, and mgr.; O. H. Perry, secy.; J. M. Patten, treas. Capital stk. \$800,000. Columbus, silver and lead. Tunnel; free; hand,
Lo Lo Missonla Ry, 529 (5 miles).	Lo Lo Chickamain Mining Co. L. M. Davis, prest, and treas.; Pleasant Davis, secy, and mgr. Cap. \$800,000, Lo Lo Chickamain, gold, silver, copper and lead. Tunnel, 50,000 tons; water.
McKeen Missoula (P.O.Missoula)Ry, 529,	Clift Mining Co. Wm, McKun, prest., mgr. and supt. S. F. Hodgson, secy, and treas. Cap.stk.\$1,000,000. Clift, silver and lead. Shaft and tunnel; refractory; water.
Maiden Fergus Ry, Big Sandy 293 (90 miles),	Anderson & Rhodes. Northern Pacific and Iron Clad, silver, lead. Shaft and tunuel; refractory, hand (developing).
" "	Newton Cowan, Nellie Bly, gold, Tunnel; free; horse and hand,
**	S. Hanson. Voltaire, gold. Tunnel and shaft; free; steam.
	Harman & Norman, Lewistown, Mont. New Year, gold and silver. Shaft; free milling: hand (developing). A. D. Harman, supt.
	Thos, N. Kerr. Silver Chain, silver. Shaft and tunnel, 10 tons; free; hand. F. L. Kingsley. Evening Star, gold, silver, lead and copper. Shaft and slope; refractory; hand (devel-
	R, B. Matthews. Yankee Girl, gold, silver, lead and iron. Shaft; refractory; hand; 10 stamps.
**	William Maurer. Black Hawk, gold, silver, copper and iron. Tunnel: refractory.
Martina Missoula Ry, Frenchtown 529 (25 miles),	
	D. M. Fower, Barrett, gold, Tunnel; free (developing),
Marysville Lewis & Clarke Ry, 529.	Big Ox Mining Co., Helena, Mont., 21 and 22 Pittsburg Block. Carey Emerson, prest.; A. P. Dodge, seey., trens, and mgr. Cap. stk. \$1,000,000. Big Ox, gold, silver and lead. Tunnel and slope; refractory; steam; 10 stamps (developing).
***	General Grant Mining Co., Helena, Mont. Henry Juergens, prest, and supt.; Frank Reece, seey, and trens.; John Kumping, mgr. General Grant and Earthquake, gold, silver, copper and lead. Shatt and tunnel; refractory developing.
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Marysville Mining Co., Helena, Mont., 216 Power Building, Chas, A. Clarke, prest.; John W. Eddy, secy, and treas. Cap. stk. \$1,000,000. Jeanette, Redemption and Mexican Lode, gold and silver. Shaft and tunnel developing.

# GOLD AND SILVER (CONTINCED)

LOCATION OF MINE RAILWAYS, WATER ROU AND SHIPPING POIN	UTES	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Outfet in Tons of 2000 Founds, Kind
	ENTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT,
	arke	Montana Co., Ltd., London, Eng., 42-47 Gresham House, Old Broad st., E. C. Stewart Pixley, chainan; Thomas Neal, seey.; Geo. H. Robinson, ingr. Cap. stk, 83,300,000. Drum Lamon, gold and silve Tunnel and shaft, 85,000 tons; refractory; stearn; 2 mills, 110 stamps. Jax, H. Henley, supt.
**		St. Louis Mining & Milling Co., St. Louis, Mo., Room 412 Temple Bldg. Chas. T. Remme, prest.; Henr E. Bartling, seey, and breas; Win. Mayger, mgr. Cap. 8tk, \$5,090,000. 8t. Louis, gold and silve Shaft and tunnel: free; steam. Chas. F. Mayger, supt.
deadow Creek Mad Ry, Norris 529.	lison	James McAllister. Grand Central, gold. Tunnel; refractory and free; hand.
	Bow	McKeig & Morgan, Cap. 8tk. 814,000. Volta, gold. Shafts; (ree; hand.
* 1	••	Pandora Mining & Milling Co., Butte, Mont., Room 6 Silver Bow Block, C. H. Hand, prest, and mgr C. F. Chapin, vprest.; Frank P. Gable, seey.; Andrew J. Davis, Ireas. Cap. stk. \$300,000. Fandor gold and Silver. Shaft and levels, free; steam; 5-stamps. J. G. Merrill, supt.
**	**	Henry C, Stebbins. Mand S, and Belcher, gold, silver and lead. Slope and tunnel; refractory and fre- horse.
Itssoula Miss Ry, 529.	sonla	Gowrie Mining Co., E. M. Tower, prest., Richard Marston, sery., J. M. Keith, treas. Cap. stk. \$500.0 Gowrie, silver.
	**	Granite Consolidated Mining Co. John F. Anderson, prest, and supt., Geo. F. Brooks, seey., treas, at mgr. Cap. stk. ssoo,000. Gold, silver and copper. Shaft and tunnel; free; horse (developing).
	**	Landowner Mining Co. W. J. Stevens, prest.; Lee Worner, secy, and treas, Cap. stk. \$400,000. Lan owner, gold. Free; steam; 5 stamps (developing).
**	**	Little Anaconda Mining Co. E. M. Tower, prest, and mgr.; J. M. Keith, seey, and treas. Cap. 81,000,000. Little Anaconda, silver and lead. Sharts and tunnels, 3,000 tons; refractory; stea 0, Jeddness, supt.
**	**	Missoula Gold & Sapphire Co., Helena, Mont. J. H. B. Foster, prest., J. H. Chinek, seey, and treat T. D. Farrow, mgr. (ap. stk. 825,000. Gold and sapphires. Placer.
	**	Old Sierra Mming Co., E. W. Schilling, prest.; W. J. Stephens, seey, and treas. Cap. stk. \$100,000. C Sierra, gold. Free; hand.
	**	8an Martina Mining Co. Thos, C. Marshall, prest.; D. D. Bogart, seey., W. B. Parsons, treas. Cap. 8 \$500,000. San Martina, gold. Free; steam; 10 stamps (developing). John Schofield, supt.
	**	Silver Calde Mining Co. Wm. Criderman, prest, and supt.; J. L. Hartt, seey., G. A. Wolf, treas. Ca 8tk, \$5,000,000. Silver Calde and Lost Cabin, silver and lead. Refractory (developing).
Jontana City Jeffe (P. O. Marysville) 293, 529.	rson Ry.	Desrosier, Duble & Sicott, P. O. Box 15. Cap. 8tk, \$2,000. Blue Jay, gold and silver. Shaft and tunn 200 fons; free; hand.
Keihart Mea Ry, 298,	gher	Cornucopla Mining Co., Great Falls, Mont. Hon, Paris Gibson, prest., John T. Maelay, seey, and treat P. H. Donovan, mgr. Cap. stk. 81,000,000. Thirteen mines, gold and silver. Shafts developing P. H. Donovan, supt.
	**	Diamond, R. Mining Co., Great Falls, Mont. Edgar T. Maelay, prest.; John T. Maelay, seey, and frea Robert M. Raymond, mgr. Cap. 8tk, \$1,000,000, Moulton and South Caroline No. 2, silver. Shaf 83,000 (one; free and refractory); Steam. R. B. Raymond, spp.
	**	Florence Minling Co., White Sulphur Springs, Mont. R. G. Wright, prest.; A. M. Henry, seey, and trea Geo. L. Johnston, mgr, and supt. Cap. 848, \$2,500,000. Florence, silver and lead. Tunnels and shaf- 500 tons; refractory; steam.
	**	Hornet Mining Co., Homer Thomas, prest.; Harry Powell, seey, and treas.; L. Fisher, mgr., Cap. 8, \$900,000. Hornet, gold, silver and lead. Shaft, hand.
	**	Ingersoll Mining Co., Great Falls, Mont. Allen Pierse, prest.; George Budge, seey, and treas.; Steph Pierse, mgr. and supt. Cap. stk. \$1,000,000. Ingersoll, Vulture and 3 others, gold, silver and let Tunnel; refractory; steam.
	. 1	Keystone Mining Co. J. L. Adams, prest,; F. B. Nosell, seey, and treas. Cap. stk. \$500,000. Keystor Dubuque and Monumental, gold, silver and lead. Shafts and tunnels; refractory; hand. F. Fish- supt.
**		Montana Gold, Silver, Platinum & Tellurium Mining Co., White Sulphur Springs, Mont. John C. E. B. ker, prest.; E. J. Anderson, seey, and treas.; David L. Barker, ngr. and supt. Cap. stk. 81,5000 Benton, gold, silver and platinum. Tunnel, too toos; free; hand.
15	**	Queen of the Hills Mining Co., C. P. Downing, prest.; C. L. Parker, seey, and mgr.; C. E. Conrad, tre Cap, stk, 8,000,000. Homestake, Queen of the Hills and O'Brien, gold, silver, lead and copper. She and Immels; refractory; electricity. Rene Carin, supt.
		Savage Mining Co., Great Falls, Mont., Room 19 Cory Bidg. Will Hanks, prest.; W. H. Race, seey, a freas., F. P. Alkinson, mgr. Cap. 8tk. \$500,000. Savage, silver and lead. Shaft; refractory; hor F. P. Mikinson, supt.
		Silver Horn Mining Co. Allen Pierse, prest.; Richard Bennett, seey.; T. E. Healy, treas.; Thos. Rowell, mgr. and supt. Cap. stk. \$1,000,000. Hawk Eye, Hatchet and Hatchet Xo. 2, gold and silv Tunnel; free; hand developing.
	**	Star Mining & Milling Co., Great Falls, Mont. Jas. A. Carrier, prest, and mgr.; 41, W. Shearman, se and treas. Cap. stk. \$1,000,000. Evening Star and Morning Star, silver and lead. Shaft; refractor hand obeveloping).
4e	**	Smmit Mining K Milling Co., Geo, W. Brown, prest.; Isaac Mayer, vprest.; Jas. S. Gordon, seey, a mgr.; A. G. White, treas. Cap. stk. \$500,000. Silver and lead. Shaft; free; horse. Hugh L. White.
		supt.  Union Mining Co., F. W. Tombs, prest.; W. W. Hillis, sery.; A. Anderson, treas., mgr. and supt. C. stk. \$1,000,000. White Star and Blue Bell, silver. Tunnel; free; hand.
Damley M.		

Pardee Missonia Thomas Butler, May Day, Surplus and Butler, silver and lead, Tunnel, 1,200 tons; refractory; hand, Ry, fron Mountain 529 (6 miles).

# GOLD AND SILVER CONTINUED

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PERICEPAL OFFICE, NAMES OF OFFICERS, CARITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	THE PARTY OF THE P
Phillipsburg Deer Lodge Ry, 529.	Bland Mining & Tunnel Co., Wm. Noble, prest.; Josiah Shull, secy.; Newt, Yaughn, treas.; H. L. Scott mgr., Cap. stk. \$12,000, R. P. Bland and Pontine, gold and silver. Free (developing).
**	Combination Mining & Milling Co., Butte, Mont. C. D. McLure, prest.; J. H. Harper, seey.; A. Hirsh- field, freas.; F. W. Sherman, ugr. Cap. stk, \$200,000. Combination, silver. Shaft, 20,000 tons; free steam; 20 stamps.
**	Hope Mining Co. of St. Louis, St. Louis, Mo., Room 130 Laclede Bidg. John C. Porter, prest.; Chas. A Cuno, seey.; G. A. W. Angst, trens.; N. B. Ringeling, mgr., and supt. Cap. 8tk. \$1,000,000. Hope, sliver. Shafts and tunnel, 7,000 tons; free; steam; 10 stamps.
**	Puritan Mining & Milling Co. John McKeelmey, prest, and mgr.; John McKeelmey jr., secy, and treas Cap. stk. \$1,500,000. Puritan, silver. Shaft, 10,000 tons; free; steam; John Hird, supt.
	Chisholm & Chisholm. Little Bonanza and Bed Rock, silver and lead. Shaff and tunnels, 400 tons; refractory; steam. J. P. Hardy, supt.
** **	Custer Mining Syndicate, St. Louis, Mo., Room 134 Lactede Bldg. Charles Clark, mgr. Cap. \$75,000 Custer, gold and silver. Shaft and tunnel, 4,000 tons; refractory; steam. O. H. Tibbetts, supt.
* *	Jumbo Copper Mining Co., Helena, Mont., 24 Edwards st. F. J. Thomas, prest, mgr, and supt.; Clas. R Sutton, secy.; L. W. Heath, treas. Cap. stk. \$500,000. Jumbo, Pine Tree and Pioneer, silver an copper. Shaft and tunnel; refractory; steam.
" "	Winston & Kendrick, Minneapolis, Minn., Room 2 Union Depot. Cap. stk, \$500,000. East Pacific, gold silver and lead. Tunnel, 2,000 tons; refractory; hand.
Pony Madison Ry. 529 (4 miles).	W. S. Duncan. Glen Addie, gold. Shaft, 15 tons; refractory; horse,
	Duncan & Hallohan. Banker, Southern Gal, Stephanite and 6 other claims, silver. Shafts and tunnels free; hand.
"	Garnet Gold Mining Co., St. Louis, Mo., 226 Walnut st. F. C. Wood, prest; J. M. Durdy, seey.; Geo, A. Zeller, treas; C. H. Wood, ngr. Cap., stk. \$5,000,000. Galena Group, gold. Shafts and humels, 50 tons; refractory; steam. John Hathahan, supp.
······································	W. C. McKaskle, Belle, gold, Tunnel, 300 tons; free and refractory; water, 20 stamps.
(15 miles).	Stock & Allen. Ticonderoga, silver. Tunnel; refractory.
" "	Frank Walters. Sarah Bernhart and Buffalo Bill, gold, silver and copper. Shaft and tunnel, 500 tons refractory; water; 20 stamps.
Princeton Deer Lodge Ry, Plint 529.	Royal Gold & Silver Mining Co., Deer Lodge, Mont. Willard Bennett, prest.; Lew Coleman, seey, and treas.; W. P. Turney, ingr. and supt. Cap. 8tk, \$1,750,000. Royal, gold and silver. Tunnel and shaft 12,000 tons; free; steam; 10 stamps.
**	Volcano Gold & Silver Mining Co., A. N. Mitchell, prest.; Lew Coleman, secy.; W. Bennett, treus. Cap stk. \$1,500,000. Volcano, gold. Tunnel; free, steam. W. W. Thrnes, sapt.
martzMissoula Ry, 529,	Landowner Consolidated Mining Co., Missoula, Mont., 15 W. Main st. W. J. Stephens, prest.; L. J. Warner, seey, and treas.; Robert Childs, mgr. and stud. Cap. stk. \$2,000,000. Landowner and Sunday, gold. Tunnel, 50,000 tons; free; steam and water; 10 stamps.
Radersburg Jeffer on Ry. Toston 529 (10 m.).	John A. Keating. Cap. \$100,000. Keating. Ohio and Leviathan, gold and silver. Shafts and tunnels; re-fractory; steam; 10 stamps (developing).
41	John M., Ralls. Mountain Glen, gold, silver and lead. Shaft, free (developing).
Red Bluff Madison Ry, Norris 529 (10 m.).	Riverside Muring & Milling Co., Minneapolis, Minn., Corn Exchange. D. F. Morgan, prest, and nugr. S. B. Lovejoy, seey, and treas. Cap. stk. \$500,000. Riverside, Katie and Hayward, gold, silver and lead. Tunnels: refractory; hand (developing). Thomas M. Park, supt.
Revenue	Plutus Mining & Milling Co., Bozeman, Mont., Room 5 Hotel Block. Archie G. Macdonald, prest; F. B. Turner, seev, and tracs.; Angus McMaster, mgr. (etg., 8k; \$1,00,000. Hughill, East Hughill, Gold Dirt, and 7 other mines, gold and silver. Shaft and tunnel; refractory; steam. Daniel McDonald supt.
**	Revenue Consolidated Gold Mining Co. O. S. Sanders, M. D., prest.; H. L. White, seey.; Geo. H. Burt treas.; R. B. Turner, mgr. Cap. stk. \$2,000,000. Revenue and Income, gold and silver. Shatt and slope 6,000 tons; refractory; steam; 20 stamps. F. F. Turner, supp.
limini. Lewis and Clarke Ry, 529,	Frederick A. Barnlund, Cap. \$10,000. Montezuma, gold, silver and lead. Shaft; refractory; horse.
0 R	Buttalo Mining Co., Helena, Mont. John F. Mulgren, prest.; James Cavenaugh, secy.; Bernard Mulgren trens, and mgr. Cap. stk. \$500,000. Buttalo, Mulgren, Allec, Cavenaugh, Adam, Julia and Augusta gold, silver and lead. Tunnel, 5,000 tons; refractory; hand. A. W. Feller, supt.
44	J. H. Conley. Nettie, gold and silver. Shaft; hand (developing).
44	A. F. Davis, Cap. \$5,000. Silver Reef, Virginia Belle, Monutain View, Jenette, A. P. Davis, Tiger, Mothe and Ida Glenn, gold, silver and lead. Tunnels; refractory; steam (developing).
	Dividend Mining Co., Helena, Mont., Sixth ay, and Main st. W. E. Cox, prest.; John W. Eddy, seey, and treas.; Geo. R. Parker, ngr. and supt. Cap. stk. \$1,000,000. Kafie Putnam, silver and lead. Tunnel refractory.
	Estella Mining Co., John Heil, prest.; J. J. Hennessy, seey.; Frank Heil, treus.; D. Heil, mgr., Cap. stk \$250,000, Estella, gold and silver. Shaft and tunnels, 25,000 tons; refractory; horse and water. M Dugen, supt.
	Golden Gate Mining Co., John Hell, prest.; J. J., Hennessy, treas.; M. Dugen, mgr., Cap. stk. \$200,000 Golden Gate, gold, silver and lead. Shaft and tunnel, 5,000 tons; refractory; horse and hand. Geo Annumery, supt.
"	Harrison & Co., Helena, Mont. Eureka, gold and silver. Shaft, 30,000 tons; steam. W. Coin, supt.
++	Win, H. Hartman. Blue Eyed Mollie and Gentle Annie, gold, silver and lead. Tunnels, 2,500 tons; free hand.

### GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	FAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SCREENFEADENT.
TOWN AND COUNTY	OF TOWER USED, STARP MILLS, LIC., AND NAME OF MINE SUPERINTENDENT.
Rimini Lewis and Clarke (Continued.)	e-Heil Bros., Mankato, Minn., 511 Frank StFrank Heil, prest.; John Heil, ngrCap. stk. §250,000. Golden Leaf, gold, silver and lead. Shaft, 2,000 tons; refractory; horse and hand. Joseph Stahl, supt.
	Heits Mining Co., John Heil, prest, and supt.: J. J. Hennessy, seey.; Frank Heil, trens.; Dominick Heil, ugr. Cap. stk, \$200,000. Peerless Kate, gold and silver. Shafts and tunnel, 2,500 tons; refrac- tory; horse.
	Helena & Rimini Mining Co., Helena, Mont. R. S. Hale, prest., W. E. Frederick, seey, and treas.; Wm. Coyne, mgr. Cap. stk. 81,000,000. Eureka, silver, lead and iron. Tunnels and shaft, 2,000 tons; refractory, steam.
	$J,J,Hennessy \&$ Co., Gold Coin, gold, Aver and lead. Shatt, 100 tons; refractory and free; horse, $J,J,Hennessy, \mathrm{supt.}$
	Jackson & Gill. Cap. 85,000. Black Warrior and Keystone, gold, silver and lead. Shaft, 3,600 tons: free, hand and horse. Wm. Jackson, supt.
**	David Kirby, Walkerville, Mont. Cap. 830,000. Monte Christo and Savannah, gold and silver. Tunnel and shaft, 300 tons; refractory, hand.
	Lehman & Dornblut, Helena, Mont., S. Main st. Telegraph and Alexandria, gold, silver and lead. Placer and humel; refractory; steam and hand, 5-stamps developing). Mannett M. Kalinett, Comput. Plant. Lang. 1999. 1991.
	Mammoth Wining Co., Connell Blufts, Iowa, 1600 Fifth av. J. J. Hennessy, prest.; S. J. Lathan, seey, and supt., Geo. Summers, treas., S. H. McDonald, ngr. (ap. stk. 850,000, Mammoth, gold, silver and lead. Tunnel, 50,000 tons; retractory, horse and band.
	Manuel & Davis. Peter Davis, mgr. Mette, gold. liver and lead. Slope, refractory; horse,
	Peerless, Jennie Mining Co., Helena, Mont., Room 2 Merchants' National Bank Bldg. E. W. Beattle, prest, and mgr., H. R. Combey, seey; W. C. Childs, treas. Cap., wtk. st.Zongon, Peerless Jennie, gold, sliver, lead and copper, "Shafts and tunnels; refractory; steen odeveloping."
**	Queen City Mining & Developing Co., Helena, Mont. John S. Miller, prest.; W. F. Cummins, sery.; W. F. Whitaker, Ireas. Cap. stk. 82,000,000. Gold, silver, lead an l copper. Tunnel (developing).
	Queen of the West Mining & Milling Co., Helena, Mont., 6to H lls lale st. J. M. Clements, prest.; John Shaw, seey, and mgr., J. D. Lurebay Ucass. Cap. 8tk, \$1,000,000. Queen of the West, gold, silver and lead. Shafts and tunnels, retractory, horse.
44 44	Thomas Travis. Atlanta, gold, silver and copper. Shatt, 700 ton , refractory.
Robinson : Meagher Ry, Townsend 529 (48 miles),	Bonanza Mining Co., White Sulphur Springs, Mont. John Rumsey, prest., Abe Gibson, secy., John
0	Cleopatra Mining Co., Billings, Mont. G. Barth, prest., F. H. Foster, seey.; A. E. Saxton, treas., Arthur Puc, mgr, and supt. Cap. stk. 85,000,000. Cleopatra, silver and lead. Shatt, free; horse,
**	Col. Sellers Mining Co. Evan T. Bowen, prest, and mgr.; Morgan H. Bowen, seey, and treas. Cap. 8tk. 82,500,000. Col. Sellers, sliver and lead. Slope; free, horse.
**	Elk Mining Co., Whate Sulphur Springs, Mont. John Rums 9, prest., John Gibson, seey.; John O'Mara, trens.; J. M. Murphy, ungr. Cap. 8tk, \$00,000. Elk Mane, saver. Shaft, free, hand developing. P. J. Murphy, supt.
**	Hidden Treasure Mining Co., White Sulphur Springs, Mont. I. Heitman, prest.; A. M. Henry, seey, treas, mgr. and supt. Cap. 3k, \$2,500,000. II blen Treasure, "Aver and lead. Shaft and levels, retractory, horse developing."
*4	From Chief, Mining Co., Henry Kertz, prest.; Andrew Wennstrom, seey.; John E. Kertz, treas.; H. Kertz, mgr., Iron Chief, alver, copper and lead. Shaft; fre., steam.
	Judge Muning Co. Wim, Parberry, prest.; E. J. Anderson, eeg, and mgr.; Jas. T. Wood, treas. Cap. 8tk. 8300,000. Judge, silver and lead. Shaft; free, steam developing).
**	Mayerick Mining Co., White Sulphur Springs, Mont. Wm. T. Ford, prest., J. E. (afloway, seey.; S. M. Allebangh, treats; H. H. Barnes, ngr., and supt. Cap. stk. 8500,000. Mayerick, alver and lead. Shaft, retractory, hand developing 1.
**	T. V. Powderly Mining Co., Castle, Mont. John A. Woodson, prest., J. L. Fraser, seey, and treas., Geo. N. Huggins, ungr. and spid. (ap. 8tk. 850),000. T. V. Powderly and Jas. G. Blaine, silver and lead. Shafts and tunnel; free; hand.
	Roland Mining Co., Michael Cooney, prest.; C. A. Benson, seey, and treas.; John M. Murphy, mgr., Cap., stfs, \$300,000. Roland and Treasure Fraction, silver. Shaft and tunnet; free; hand (developing). F. J. Murphy, supt.
**	St. Genevieve Mining Co. Henry Kertz, prest; John E. Kertz, seey.; Chas. H. Kertz, treas., E. P. 80y dam, ngr. and supt. Cap. 8tk, \$2,50,000. Top Lode, gold, silver and copper. Shafts; refractory and free, horse (developing).
	Wm. Sherwood & Co. Cap. \$2,000. Trinidad, silver and lea l. Shaft, 3 tons; free, horse,
Rochester Deer Lodge Ry, Metrose 776 + 7 m.	
	Mountain Side Minling Co., Great Falls, Mont., 165 Central av. 41, O. Chowen, pre U. F. B. Wilcox, seev., A. E. Diekerman, treus.; H. H. Chandler, mgr. (ap. stk. 850,000. Last Chance and Mountain Side, silver and lead. Tunnels, 2,500 tons; free; horse, Jacob Jacobson, supt.
	Course & Gelloch Townsend Want Switzerland and New Fra gold Silver and load. Tunned and chaft
	Goodyear Mining Co., Helena, Mont., 43 Montana National Bank Bidg, T. Mackaness, prest., O. A. Sonth-mayd, seey, and treas. Uap. stk. \$1,000,000, J. J. C., Jenny Lind, Hopeful and Gibraltar, gold, silver and lead., Shaft, refractory; horse developing. John McConnell, supt.
. "	North Elkhorn Mining & Reduction Co., Townsend, Mont., Jos. A. Wood, prest., J. P. Rhoads, seey, and freas.; Win. Wood, nigr. Cap. std. 85,000,000. North Elkhorn Group, gold, silver, copper and lead. Tunnel, free and refractory developing.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT. TOWN AND COUNTY

#### GOLD AND SHLVER (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN AND COUNTY.	
St. Lonis	West Buxton Mining Co., R. E. Cove, prest, and treas.; T. D. Farrow, seey.; das. Burke, mgr. and supt. Cap. stk. \$500,000. Mountain Key, gold and silver. Tunnel; refractory; band.
Seven-Up Deer Lodge (P. O. Stemple) Ry. (Silver 293 (20 miles)).	Evans & Howe, Helena, Mont., 822 Ninth av. W. F. Howe, mgr, and supt. Cap. 8tk, \$5,000. Last Chance, gold and silver. Shafts; refractory and free; hand (developing.
Sheridan Madison Ry, Dillon 776 (35 m.).	Noble Mining & Milling Co., 8t. Louis, Mo., 221 Chestnut st. S. M. Kennard, prest.; J. H. Wyeth, seey, and treas.; D. B. Noble, mgr, and supt. Cap. 8tk, \$2,000,000. Noble, gold, silver and lead. Tunnels; refractory and free; steam; to stamps (developing).
	Wisconsin Creek Mining Co. David McCranor, mgr. and supt. Wisconsin Creek, gold. Tunnel; free and refractory; hand; to stamps (developing).
Silver Star Madison Ry, White Hall 529 (18 miles).	Bush Gold & Silver Mining Co., Marinette, Wis., Room 3 Stephenson Block. H. E. Mann, prest.; L. K. MacNeill, seey, and supt.; W. A. Tanner, trens; H. Bush, mgr. Cap, stk. \$500,000. Cyclone, Bull Dog and Marinette, gold and silver. Tunnel, 300 tons; free; hand.
	J. E. Woods & Co. Cap, stk, \$20,000. Crickett and Grasshopper, gold. Tunnel and shaft; free; steam; 5 stamps. J. E. Woods, supt.
Snow Creek	<ol> <li>X. L. Consolidated Miining Co., Great Falls, Mont. H. O. Chowen, prest.; F. B. Wilcox, seey, and treas.; Jas. Morr, mgr, and supt. Cap. stk. \$2,500,000. I. X. L. and Eureka, gold and silver. Shaft; refractory; horse (developing).</li> </ol>
Spotted Horse — Fergus (P. O. Maiden) Ry, Junction 529,	P. W. McAdow, Cap. \$100,000. Spotted Horse, gold. Shaft, 12,000 tons; free; steam; 20 stamps. J. M. Malin, supt.
Spring Gulch Missoula (P. O. Carter) Ry, 529	Eastern Consolidated Mining Co., Missonia, Mont. T. M. Crouch, prest.; F. W. Cowan, seey., treas. and mgr. Cap. stk. \$600,000. Eastern Consolidated, silver. Tunnel (developing).
Stanford . Fergus Ry, Barker 776.	O'Brien, Owens & Frizer. J. M. Owens, mgr. Cap. \$5,000. Alice, silver and lead. Shaft; free.
**	Stough & Malthy. Forest Rose, gold, silver and copper. Shaft; refractory (developing).
. "	Wolf Butte Consolidated Mining Co., Great Falls, Mont., P. O. Box 205. Geo. N. Ator, prest.; H. C. Ship-key, seey, and treas; Henry skelton, mgr. and supt. Cap. stk. \$1,000,000; indv. cap. \$800,000. Lost Trail, silver, copper and lead. Shaft and tumel, Lsou tons; free; horse.
Stemple Lewis and Clarke Ry, Silver 293,	Bachelor Mining Co., Helena, Mont. Aaron Hersfield, prest.; J. W. Chivers, secy.; P. J. Connor, mgr. and supt. Cap. stk, \$50,000. Bachelor, gold and silver. Tunnel, 2,000 tons; free; 10 stamps.
Ab	Reed & Guillow, L. E. Guillow, mgr. Cap. \$50,000. Minnesota, gold. Tunnel, 500 tons; free; steam; 5 stamps.
Stevensville Missoula Ry, 529.	Claremont Consolidated Mining Co. John Dowling, prest, and supt.; Geo. A. Kain, secy. and treas.; Louis McCatly, mgr. Cap. stk. \$2,300,000. Claremont, silver and copper. Shaft and tunnels; steam obveloping).
	Chif Mining Co., Missoula, Mont., cor, Main and Higgins 8ts. Win, McKeen, prest; S. Fred. Hodgson, seey; First National Bank, treas; Norman Diefendorf, mgr. Cap. 8tk, \$1,000,00. Clif, Bullas and Blue Bird, gold, silver and lead. Shaft and Immel; refractory; water (developing). Frank Schneller, supt.
**	Victor & Burnt Fork Mining Co., Victor, Mont. T. H. Hambridge, prest.; A. Herbert, seey, and treas.; Ton J. Devault, mgr, and supt. Cap. stk. \$1,000,000. Burnt Fork, silver and lead. Slope: free; horse developing).
Stone Station Deer Lodge Ry, 529,	Mount Powell Mining Co., Cleveland, Ohio, Perry-Payne Building. Joseph L. Colby, prest, and treas.; Charles F. Rand, seey. Cap. stk. \$1,500,900. Mount Powell, silver. Tunnel; free. Alton L. Dickerman, supt.
Sunset . Deer Lodge Ry, Bonner 529 (33 m.).	N. H. Chamberlain, Clemantha, gold, Tunnel; free; Huntington mill (developing).
Ry.Driummond Station 529 (30 miles),	Superior & Sunset Mining Co., West Superior, Wis. R. J. Wemyss, prest, and treas.; F. W. Downer, seey.; W. A. Logue, ngr., and supt. Cap. 8tk. \$20,000. Wallace, O. K., Florence and 5 others, gold. Placer; hydraulies.
Thompson. Missoula Ry. Woodlin 529,	Lynch & Harrison. North Pacific, silver and copper. Tunnel, 6 tons; refractory.
Three Forks, Gallatin Ry, 529 (3 miles).	Montana Mining, Land & Investment Co., Bozeman, Mont. H. A. W. Tabor, prest, and treas.; W. N. W. Blancy, secy.; W. Berkin, mgr., and supt. Cap. stk. \$1,000,000. Placer, gold. Free; steam.
. "	Three Forks Mining Co. A. Hardebrook, prest.; John Thorn, sery.; J. O. Hopping, treas.; W. Berkin, mgr, and supt. Cap. stk. \$500,000. Burlington, gold and copper. Shafts; steam (developing).
Townsend Meagher Ry, 529 (Mines in Jef- terson County).	Mineral Hill Mining Co. J. R. Marks, prest.; E. H. Goodman, secy, and treas.; L. N. Thompson, mgr. Cap. stk. 8700,000. Corn Cracker, Hidden Treasure, Red Wing, Green Castle and Transverse, gold, sliver and lead. Shaft; refractory, horse and hand.
**	Union Mining Co. D. T. H. Allon prest - H. S. Hvatt seev - Samuel T. Green treas. Can stk. \$250,000.

Missoula Idaho Development & Mining Co., Fry. Idaho, Wm. Rosegrant, prest.: Herbert S. Baines, secy.; Thos. J. Jones, Ireas.; Arthur B. Baines, mgr. Cap. stk. 830,000. Neptune, Tough Yut, Ida, Mineral King, Kingston, Mispath, Charleston, Atlas, Monitor and New Castle naines (developing). (P. O. Fry, Idaho) Ry. 293. Twin Bridges Madison Crumb & Pritchett. Tidal Wave, silver and lead. Tunnels and slopes, 50 tons; refractory; hand. Ry. Whitehall 529.

Union Mining Co., O. T. H. Allen, prest.; H. S. Hyatt, seey.; Samuel T. Green, treas. Cap. 8tk, \$350,000. Union mine, gold and silver. Shaft and tunnel; hand. Windsor Mining Co., Townsend, Mont. Sand, T. Green, prest, and treas.; A. B. Clements, secy. 8tk, \$2,500,000. Summit, silver and lead. Slope; free; horse (developing). O. T. H. Allen, supt.

Unionville Lewis & Clarke Mac Minling & Milling Co., Helena, Mont. A. McLean, prest.; H. A. McLean, seey, and treas.; J. C. Mc-Ry, 529. Cann. mgr. Cap. stk. \$1,500,000. Mac and Gold Bag, gold. Tunnel; free; steam; 20 stamps.

Utica Fergus Ry, Armington 293 (60 miles), Fergus George Cram. Prairie Bell and Amazon, gold, silver and lead. Shaft: refractory; hand (developing).

GOLD AND SILVER—CONTINUED		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPINO POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Minr, Kind of Ore. Kind of Minr, Anneal Output in Tons of 200 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.	
VictorMissoula Ry, 529.	Helena & Victor Mining Co., Helena, Mont., 113 Main 8t. [8, T. Hanser, prest.; A. P. Loberg seev.; A. M. Hotter, treas.; Geo. O. Kilbourne, ngr. and supt. Cap. 8tk, \$100.000. Curlew, silver and lead. Shaft, 3,000 tons; refractory, steam, concentrators.	
	Legal Tender Silver Mining Co., Missoula, Mont. Gust. Moser, prest.; J. H. Fairchild, seey, and treas.; J. A. Hickey, nurr. and supt. Cap. stk. \$500,000. Lion, Lioness and Homestead, silver and lead. Slatt. It tous; free; horse.	
Vipond Beaver Head (P. O. Dewey) Ry. Di- vide 776.	Great Western Mining Co. J. C. Friend, prest.; Edward Beattie, seey, and supt.; Otto Eckel, treas., Peter Johnson, mgr. Cap. stk. 85,000. Great Western, silver. 5,000 tons; free, horse,	
Walkerville Silver Bow Ry. Butte City 293, 529, 776.	Alice Gold & Silver Mining Co., Salt Lake City, Utah, care of Union National Bank. Jos. R. Walker, prest; I. H. Farnsworth, seey. M. H. Walker, treas; Wu. E. Hall, mgr, and supt. Cap. 8th, 8to, 000,000. Alice, Magna Charta, Valdlimere, etc., silver and gold. Shafts and tunnels, 45,000 tons; free, steam; 80 straings.	
44	Moulton Mining Co., Butte, Mont. W. A. Clark, prest., Alex. J. Johnston, treas., J. K. Clark, mgr. and supt. Cap. stk. \$2,000,000. Frank Moulton, silver. Shaft, 5,000 tons; tree, steam; 40 stamps.	
	Société Anonyme des Mines de Lexington, Paris, France, 24 Rue Le Peletier. M. de Biancour, prest., M. E. Stonis, seevy, chas, c. ; Rueger, mg.; and stapt. Cap. 8th, 12,000,000 francs. Lexington, gold, silver, copper and lead. Smitt, 15,000 tons; refractory, steam; 50 stamps.	
Washington Bar Madison Ry, Norris 520 (15 m.).	Bald Mountain Consolidated Mining Co., Oakland, Ca., 957 Broadway, C. W. Wilkins, prest., M. C. Rigner, eecy., Cap. stk. \$60000. Bald Mountain, gold. Shaff and funnel; free, Butler & Levy. B. & L. and Jumbo, gold. Tunnels, refractory developing.	
11	James & Hedge, Gold. Placer: hydraulic.	
	Lamb & Mather, Cap. 8500,000. Mountain Queen, Daisy and Bonanza Chief, gold and silver. Tunnel. 36,000 (tons; free, water; 66 stamps. Michael Lamb, supt.	
16	Montana Hydraulic Mining Co., Helena, Mont. F. H. Nettleton, mgc. Gold. Placer (developing	
3.6	C. M. Pinckney. Gold. Tunnel, refractory and tree developing .	
**	Timberline Mining Co., Pattsburg, Pa. 155 Fourth av. (advin Wells, prest. Geo. P. Murray, seey, and treax, Herman Veeder, ugr, and supt. Cap. stk 810,000. Eureka-t lampton, gold and silver. Tim. nel. tree, water developing.	
	Walton, Gleason & Hedge. Chance Mine, gold. Tunnel, 20 tons, free mil ing.	
Washington Guleh Deer Lodge Ry, Avon 529 (20 m.).	Butte & Deer Lodge Placer Minling Co., Deer Lodge, Mont. John P. Rebus, prest., W. F. Shanley, seey, and treas,: Julian Smith, mgr., and supt. Placer Mine, gold. Water.	
**	Hackney, Bush & Dietrich, Nos. 1, 2, 3 and 4 claims, gold. Placer.	
16	Kessinger, Dietrich & Hackney. Baccarat, gold, silver, copper and lead. Scope, 30 tons; refractory.	
Whitehall Jefferson Ry, 529,	W. Diller, Boulder, Mont. Gem, gold, silver and lead. Shaft, 55 tons; retractory, hand,	
	J. W. Gilkey. Butler, gold, silver, copper and lead. Slope, refractory thorse developing .	
	Hale, Boast & Brockway, Butte, Mont. 502 S. Montana st. John Symmonds, prest.; Wm. Boast, seey. Edward Hale, freas., H. I. Brockway, mgr. Cap. stk 870,000. Pym Tree, gold, silver and lead. Shaft. 2000 tons, refractory, steam developing). Wm. Johnston, supt.	
**	J. E. Parrish, Gold, silver and lead. Shatt, 300 tons (tree), horse	
	Shott's Jordan. Old Jim, silver and lead. Shaft, refractory, horse developing.	
White's Meagher Ry, Helena 293, 529,	John 8, Bristol. Gold, Placer; hydraulic.	
46 11	James Met abe, Helena, Mont. Gold. Placer, drifts, hydraulic (developing).	
44	Stephen H. Senter, N. Monument, gold and silver. Drift, horse,	
White Sulphur Springs Meagher Ry, Townsend 529 (40 miles),	Castle Crescent Mining Co., J. W. Dunham, prest; Lew L. Callaway, seep., John Potter, treas., George Walwork, mgr. Cap. stk. Sarnoo. Castle Crescent, silver and lead. Shaft, free, hand developing. A. Nichelser, supt.	
	Grasshopper Mining Co., B. R. Sherman, prest, and mgr., E. I. Anderson, se y., John Potter, treas. Cap. stk. 8500,000. Grasshopper, silver. Shaft, free, horse.	
	Mountain Granite Mining Co. D. McH. McKay, prest., Max Waterman, seey.; John O'Mara, treas, stk, \$400,000. Granite Mountain, silver and lead. Refractory.	
44	Charles Stiller, Cap. \$100,000. Dead Certain, gold, silver and lead. Shaft, 3,000 tons; refractory; hand,	
Wickes Ry, 203, 529. Jefferson	Alayiesko Mining Co., Red Jacket, Mich. Olof Parry, prest., C. J. Sørsen, s ey., A. A. Bajori, treas., J. Komsi, mgr., and supt. Cap. stk. 890,000. Gopher and Black Bear, silver developing	
**	Barta Bros, Cap. \$4,000. Uncle Sam, gold, silver and lead. Slope, refractory, horse (developing).	
	Blaine Mining Co., Helena, Mont. S. A. Swiggett, prest., W. G. Cooding, seey., treas, and mgr. Cap., stk. \$2,500,000. Blaine, gold, silver, copper and lead. Tunnel and shaft, s00 fons: retractory. Nelson Oleson, supt.	
**	Bobbie Burns Mining Co., Helena, Mont., 11 and 12 Bailey Block. A. H. Nelson, prest.; W. M. G. Settles, seey.; George W. Pawrle, treas; d. W. Sheahan, mgr, and supt. Cap. stk, 850,000. Bobbie Burns, gold, siber and copper. Tunnel, 6,000 tons, refractory, Increse.	

Clancy Creek Mining Co., St. Paul, Minn., Fourth and Broadway, A. S. Morton, prest., Charles P. Johnston, seeg., H. M. Hood, treas, Cap., 8tk, 8450,600. Richmond, Lexington and Utopa gold, silver and lead, Tunnel and Islott: retractory, lipid and watee observoings. H. C. Branch, supt.

# GOLD AND SILVER (CONTINUED)

AND SHIPPING POINT.	Name of Mine, Kind of Ore. Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
OWN AND COUNTY.	
Vickes Jefferson (Continued.)	Charles H. Hener. George Croghan and Cruiser, gold, silver and lead, Tunnel, 240 tons; refraetor hand.
	Jacob Kanf. Blizzard and Blizzard West, gold. Shaft and tunnel, 1,000 tons; refractory; horse and han
	James Thompson. Blue Eyed Nellie, Shepard, Mary Blackstalls, gold, silver and lead. Tunnel, 150 ton refractory: hand.
13 93	Two Cripples Mining Co. Thomas Williams, prest.; E. H. Rankin, seey, and treas.; John Bowden, mg Two Cripples, gold, silver, copper and lead. Shaft; refractory; horse.
(P.O. Great Falls) Ry. Barker 529 (20 miles).	Running Woff Mining & Milling Co., Great Falls, Mont. Paris Glison, prest.; Otto Schonfeldt, seey, ar treas.; Charles S. Glison, mgr. and supt. Cap. stk. \$1,000,00. Morison, Woodhearst and Log Cabi silver and lead. Shaft and tunnel, 500 tons; free; horse (developing).
VoodvilleJefferson Ry, 293.	John L. Ekstrom. Cap. \$18,000. Ekstrom and Otranto, gold and silver. Shafts and tunnels, 700 ton free and refractory; hand. John Gilbert, supt.
** **	C. E. Kinman. Nellie Kinman, silver and copper. Shaft; refractory; steam.
	Leo Mining & Milling Co., St. Louis, Mo., 303 N. Third st. J., Freund, prest.; J. Meyer, seey.; J. Mucelly, treas.; Samuel Schwab, mgr. Cap. stk, \$2,500,000. Leo, gold and silver. Shafts and tunnel free; steam. Adolph Zhumerman, supt.
ogoMeagher Ry, + Great Falls 292, 293,	Aeme Mining Co. H. F. Luckett, prest.: E. L. Luckett, seey, and treas.; Louis Pepin, mgr. and sup Cap. stk, \$60,000. Aeme Placer, gold. Hydraulic.
11	Emmett R. Carroll, Cap. \$500,000. Placer Mines, gold. Free; water and steam.
. "	Gold Mining & Reduction Co., Utica, Mont. Adm. D. Waite, pres.; Fred. D. Warren, secy, and tree Louis Pepin, ingr. and sipt. Cap. stk, \$500,000. Climax, Tiger and Manganese Lode, gold and slive Shaft and tunnel; free; hand.
	Judith Gold Mining Co. Judith, gold, Placer; hydraulic. Edgar Boling, supt.
	Fred Kensenbach. Cap. \$500,000. Christopher Columbus, gold, silver and lead. Shaft and tunnel; I fractory; hand. Louis Sarchletti, supt.
	Neihart Gold, Silver & Lead Mining & Reduction, Co., Great Falls, Mont, John A., Hay, prest; Jam Donovan, seev.; F. E. Collins, Ireas.; Elmnett R. Carroll, mag, and supt. Cap. stk, 2000,000, One Melvina, Weather Wax, Minie Sloane and others, gold, silver, copper and lead. Shaft and tunne 50,000 tons; free and refractory; steam and water.
**	New England & Belt Mountain Mining Co., Boston, Mass., 53 State st., Room 405. H. G. Forr, prest.; O. M. Shaw, secy.; Geo. H. Appteton, treas.; Emmett R. Carroll, mgr. and supt. Cap. stk. \$1,000.0 Edith and Eliza Mines, gold, silver and lead. Shafts and tunnel, 50,000 tons; free; steam and well.
ork Meagher Ry, Helena 293, 529.	Robertson & Kincade, Gold Speck, gold. Shaft, 30 tons; refractory; hand. H. L. Kincade, supt.
** **	R. C. Robinson. Cap. \$4,000. Golden Cloud, gold. Shaft, 500 tons; free; steam.
11	(S. A. Stevens, Last Rose of Summer, gold and silver, Shaft; free (developing).

IRON	
LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, ELAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
CastleMeagher Ry, Livingston 529.	Compromise Mining Co., Billings, Mont. Henry W. Rowley, prest.; Geo. M. Hayes, secy.: Chas. A Wastum, treas. Cap. stk. \$5,000,000. Compromise (developing).
***	Merrimac Mining Co. (local). J. T. Westbrook, prest. and ungr.; L. Peavey, seey, and treas. Cap. stk. \$200,000. Merrimac, manganese iron. Shaft, 2,000 tons; horse. J. T. Westbrook, supt.
ElkhornJefferson Rv. 529.	Benjamin Foster & Co. Monarch, brown hematite. 1,000 tons; hand.
WickesJefferson Ry, 293, 529.	Dean & McArthur. Timberline, iron pyrites and bismuth. Shaft; hand.
WillisBeaverhead Ry, Apex 776,	Shelloy Mining Co., Dillon, Mont. Gny C. Barton, prest.; B. F. White, seey, and treas.; Ozlas Willis, mgr and snyt. Cap. stk. 8259,000. Iron City and Cumberland, magnetic ore. 800 tons.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARK, KIND OF STONE, KIND OF MINE OR QUARK, ANNUAL OUTFUT IN TONS OF 2.00 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERIANS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Bozeman Gallatin Ry. 529,	Potsdam Stone Co., R. B. Turner, propr., Room 5 Hotel Blk. Cap. \$50,000. Potsdam sandstone. Slope 20,000 tons; horse and hand; mill.
Castle ,Meagher Ry, Livingston 529,	George Berry (local). Cornelius. Open pit; kiln, šo tons.
Great Falls Cascade Ry, 293.	Edward J. Canary, Sixth st. and Second av. (local). Cap. \$10,000. Canary, red sandstone. Open pit 10,000 tons; hand. Thos. Pringle, supt.
	Great Falls Quarry Co., M. 8. Parker, prest, ngg, and supt.; Edward W. Kelly, seey, and treas. Cap stk, stoo,000. Sand Confee, sandstone. Open pit; hand; mill.
** **	Riverside Stone Co. (local), J. D. Taylor, prest, and mgr.; J. C. Oaklend, secy.; M. C. Kelsing, treas Cap. 850,000. Riverside, lime and sandstone. Slope (developing).
Lime SpurJefferson Ry, 529.	Jefferson Lime & Flux Co., Batte, Mont., 3) and 32 W, Granite st. F. T. McBride, prest.: Geo. H. Casey seey, and treas: D. A. Morrison, ngr. Riverside, limestone and flux. Open pit, 17,000 tons flux steam; Riln, 2700 tons. D. A. Morrison, sppt.
LivingstonPark Ry, Granite Gate 529.	O. W. Mattson, Cap, \$500,000. Lavingston, limestone, 4,500 tons, hand,

SEE ALSO SUPPLEMENTARY LIST.

# NEVA DA

#### ANTIMONY

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.

Bernice . Churchill Ry, Lovelocks 776.

W. A. Van Reed. Ruby and Waltoe. Tunnel; hand.

Lovelocks Hamboldt Ry. 776

James Sutherland, New York City, 16 Exchange pl. Cap. \$50,000. Black Knob. Shaft and tunnel, 1,000 tons; horse, A. H. Hutchins, supt.

Peavine Ry, Sodaville 108. Peayine Antimony Mining Co. Anaconda and Ashley, antimony. Shaft,

#### BORAX

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.

AND

Columbus... Esmera Ry, Candelaria 10s,

Esmeralda Columbus Borax Co., New York City, 10 Cedar st. Emil C. Calm, prest.; Edward Lande, seey.; Charles E. aria 10s. ——Calm, mgr. Cap. stk. \$100,000. Columbus, borate of lime and borate of soda. 600 tons; steam. Paul Heilman, supt.

Ry. Belleville 108. Teets Marsh Esmeralda P. O. and Ry. Candela Esmeralda Pacific Coast Borax Co., San Francisco, Cai., 230 Montgomery st. F. M. Smith, prest.; Alton H. Clough, secy. Borate and carbonate of soda, marsh. Steam and horse. C. B. Zabriskie, supt. Pacific Coast Boray Co., San Francisco, Cal., 230 Montgomery st. F. M. Smith, prest.; Alton H. Clough, secy. Borate and carbonate of soda, marsh. Steam and horse, C. B. Zabriskie, supt.

ria 108 White Plains Ry. 692.

Churchill Desert Borax Co. Desert, borax. Walter Schmidt, supl.

#### COPPER

LOCATION OF MINE,

RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Bullion. Ry. Elko 692.

Elko Blue Bell Mining Co., San Francisco, Cal., 212 Sansome st. S. W. Levy, prest.; H. P. Bush, seey.; Anglo-Californian Bank, treas. Cap. stk. \$100,000. Blue Bell, copper. Shaft and tunnel.

#### GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Arabia. . . . . Humboldt Stone, Trimlow & Co., Siege, Cal. War Eagle, gold, silver, lead and antimony. Shaft and drift, 9,000 tons; (P. O. Lovelock's) Ry. refractory; horse. Geo, Lovelock jr., supt.

White Pine Aurum Ry, Toana 692 (120 m.). vis & Sanford. Lucky Deposit and Argenta, gold, silver, lead and iron. Shaft and tunnel, 500 tons, re-fractory: hand. Simon Davis, supt.

(110 miles).

W. B. Lawler. Grizzly, Free Coinage, Double Standard and Bullion, gold and silver. Shaft and cuts, 10 tons; free; hand (developing). Charles Born. Lady of the Lake, gold and silver. Slope, 200 tons; free; band.

Bald Mtn. , White Pine (P. O. Cold Creek) Ry, Eureka 255,

Barcelona Mining Co., New York City, 31 and 33 Broadway. Geo. Doyle, prest.; Geo. Enrighten, seey, and treas.; Chas. Metirgor, mgr. and supt. Cap. 8tk, 85,000,000. Barcelona, gold and silver. Tunnel; refractory, steam; Huntington and stamp mill.

Ry. Austin 489 (85 m.).

Green Aldrich. Seventy-seven, silver. Slope, to tons; free; hand; 2 stamps. Wm. McCann. McCann, silver and quicksilver. Shaft; free; steam.

Ry. 692. .Churchill

Eureka Ervin & Richardson. Oneonton, Puritan and London, gold, silver and lead. Tunnel; refractory (developing). J. A. Ervin, supt.

Ry, Lovelocks 692.

Wilson W. Williams. Cap. \$50,000. Golden Crown, gold and silver. Tunnels, 3,000 tons; refractory; steam; 6 stamps. Wallace Goodell, supt. Bristol Development Co., Minneapolis, Minn., 366 First av. S. W. D. Hafe, prest.; T. E. Hughes, seey.; W. W. Hintington, treas. Cap. stk., \$290,000. Maydower, silver, slope and tunnel; refractory, steam: to stamps.

Lincoln

### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used,
Town AND COUNTY.	COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.
10WN AND COUNTY.	
Ry. 778.	C. H. Gregg (local). Gregg. Shaft; horse (developing).
Lathrop Athens Ry, 766.	Black Diamond Coal, & Coke Co., Columbus, Ohio, Board of Trade Bldg. Robert W., Gilbert, prest, Milton Hopkins, seey.; J. H. Earnshaw, treas, and mgr. Cap. sdc, \$50,000. Black Diamond, Tunnel, electricity; breaker, 5a coke ovenes, capacity L5,000 thus (developing). Alames Fox, support
	McKinney Coal & Coke Co., Zanesville, Ohio, 42 N. Fourth st. O. F. McKinney, prest, and mgr.; F. E. Huggins, seey, and treas. Cap. stk. \$100,000. Slope; steam (developing). Thomas Opie, supt.
Laurelton Jefferson Ry, Portland Station 563,	Wheeling Lake Frie & Pittsburg Coal Co. Toledo Obio. W. P. Woodford, prost : Downer & downer and
Leesville . Carroll Ry, 809,	McCreary & Moore (local), Ball. Open pit, 1,379 tons; hand, G. C. McCreary, supt.
	A. Preston (local). Open pit, 600 tons; hand.
Longstreth, Hocking Ry, 181,	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg., J., O. Moss, prest., S. A. McMangal, seey.; W. J. Redington, trens., R. H. Johnson, vprest, and gen, mgr., No. 19. Drift 50,000 lons, steam, electricity. Vint. Furguson, supt.
Lyonsdale Perry Ry, 164.	M. Meenan. Cap. \$10,000. Lyonsdale. Tunnel, 30,000 tons; horse.
	Benjamin Newlan (local). Tunnel, 172 tons; horse.
	Crawford, Gaver Bros, & Co.   Cap. \$4,000.   Eagle.   Tunnel. horse/developing Wm. Gaver, supt.
	J. H. Jones. Cap. \$15,000. Beech Grove. Tunnel, 35,749 tons; horse. George Savage, supt.
Malyern Carroll Ry, 175,	Phoenix Fire Clay Co., C. A. Weaver, prest.; R. Roberts, seey, and treas.; Samuel Hodkluson, mgr. Cap. stk, \$75,000. Phoenix. Slope, 4,500 tons; hand.
Manchester Summit (P.O.Akron Ry.Clinton 169, 42, 563, 593.	
Martins Ferry Belmont By, 471, 475.	Gaylord Coal Co., G. Edwards, prest., Theodore Snodgrass, seey, and treas.; Jonah Lewis, mgr. Cap stk. \$20,000. Open pit.
Massillon	Howells Coal Co. Anthony Howells, prest, and mgr.; John C. Albright, secy.; J. D. Wetter, treas. Cap. stk. \$60,000. Anderson. Shatt, 40,000 tons; steam. Evan J. Evans, supt.
0.00	E. G. Krause & Co., cor. Sheriff and Prospect sts., West Massillon. Shaft, 50,000 tons; steam.
**	Massillon Pigeon Run Coal Co. A. Howells, prest, and mgr., E. S. Howells, seey., J. D. Wetter, treas. Cap. 8tk. \$200,000. Pigeon Run. Shaft, 45,000 tons, steam. A. H. Owens, supt
" "	John Moore, Bridgeport, Tunnel, 1,150 tons; hand,
	Upper Pigeon Run Coal Co. W. K. L. Warwick, prest, and treas.; Reinhard Keller, seey., mgr. and supt Cap. stk. \$100,000. Upper Pigeon Run. Shaft, steam (developing).
	Warwick Coal Co., Reinhard Keller, prest., mgr., and supt.: W. K. L. Warwick, seey, and treas. Cap. stk. 800,000. Warwick. Shaft, steam (developing).
99	Wheeling, Lake Eric & Pittsburg Coal Co., Toledo, Ohio, Cherry st. W. R. Woodford, prest, Downer Adams, seey, and treas. Cap. stk, \$1,000,000. Forrest. Shatt, 27,3 6 tons, horse. R. H. Waimwright, supt.
Middleport, Melgs Ry, 181, 344, 533,	Mlchael & Edwards (local). Diamond. Tunnel; horse.
44	Silver Run Coal Co. Silver Run. Drift, 42,000 tons, horse. A. Hysell, supt.
Millersburg Holmes Ry, 169,	Bilderback Bros. (local). McElroy. Tunnel, 500 tons, hand.
0 , 1	Cary & Umson (local). Slope, 10,000 tons.
	John Chevalard, Cap. \$10,000. Draft; horse.
**	John Craft & Co. Cap. 85,000. Open pit; hand,
0.00	John Horn. Tunnel, 1,000 tons; hand.
	E. B. Skelly. Open pit, 1,350 tons; hand.
Mineral Point Tuscarawas Ry, 175, 778.	Brick Bros. Cap. \$1,500. Tunnel and slope, 24,000 tons; steam. John Brick, supt.
	Edward Holden. Cap, \$50,000. Shaft, 15,000 tons; horse. Thomas Osborne, supt.
**	Ohio Coal Mining Co., Akron, Ohio, F. A. seiberling, prest.; L. C. Miles, secy, and treas.; T. W. McCue, mgr. Cap. stk. 850,000. Mineral Ridge, Clover Dell, Acme. Tunnel (developing). George J. Markley, sind.
34. 45.	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, prest, and treas.; D. Johns, secy. Cap. 8(k, \$30,000), Hard Rum. Stane 36 200 Fans. Darso, L. L. Klain, cond.

Mineral Ridge Trumbull William Powers (local). Langan. Slope, 300 tons; horse, Ry, 503. Minersville . . . . Meigs Eli Roush (local). Eureka. Open pit, horse, Ry, Pomeroy 181.

" John J. Williams (local). Tunnel, 2,000 tons; hand, Minerva . . . Stark J. W. Shaw. Cap. 8500. Rustic Mountain. Tunnel, 480 tons; hand, horse. John Mills, supt. Ry, 173, 175, 376.

# COAL BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kinn of Mine, Asnual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Bereakers, Washelbs, Code Evers, and Name of Mine Superintendent.
TOWN AND COUNTY.	
Monday Hocking Ry, 181.	Somers Coal Co., Columbus, Ohio, 11 E. Town st. A. Brenholts, prest.; James O. Somers, seey, and treas. Cap. stk. \$90,000, Monday. Drift, 80,000 tons; horse, F. Williams, supf.
Mt, PleasantJefferson Ry, 809,	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, W. R. Woodford, prest.: Downer Adams, secy, and treas, Cap. stk. \$1,000,000, Long Run. Tunnel, 155,000 tons; horse, George Atherton, supt.
Murray Hocking Ry. 181.	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redington, tress: R. H. Johnson, vprest, and gen. mgr. Nos. 39 and 41. Drift, 60,000 tons; steam, horse. Vint. Furguson, supt.
*********************************	Greendale Furnace Co., Columbus, Ohio, Y. M. C. A. Bidg. J. A. Long, prest.; H. F. Holloway, seey, and treas.; C. H. Boardman, mgr. Cap. 8tk. \$25,000. Murray City. Slope, 200,000 tons; steam. John Hopkins, supt.
Navarre Stark Ry, 173, 171, 809,	Levi Hair. Tunnel, 240 tons; hand.
**	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, prest, and treas.; D. Johns, seey. Cap. stk. \$30,000, South Massillon. Shaft, 30,500 tons; steam. Wm. Hardgrove, supt.
Neffs Siding Belmont (P. O. Shields) Ry. 42.	George Neff (local). Cap. \$1,000. Open pit, 40 fons; hand.
	Sutherns Mining Co. A. H. Davis, prest.; James Sutherns, freas., ingr. and supt. Cap. stk. \$10,000. Pleasant Valley. Drift, 75,000 tons; horse.
Nelsonville Athens Ry. 181.	Buckeye Coal Co. Geo, E. Hall, prest.; Geo, O. Shoemaker, seey.; John Ginitty, treas.; H. A. Crippen, mgr. Cap. stk. \$35,000. Buckeye. Tunnel, 75,000 tons; horse. John Ginitty, supt.
"	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, secy.; W. J. Redingjon, treas.; R. H. Johnson, vprest, and gen, mgr. Nos. 45, 47, 27, 29, Drift, 180,000 toils; steam, electricity.
	Hocking Valley Coal Co <sub>2</sub> Columbus, Ohio, 44 E. Broad st. E. A. Cole, gen. mgr. Cap. stk, \$209,000. Minkes Run, Hawkes. Tunnel, 200,000 tons; steam, compressed air.
54	Johnson Hill Coal Co. Wm. Myers, prest.; Frank W. Poston, seey.; John W. Bennett, treas.; Wm. Dalrymple, mgr. and supt. Cap. stk. \$3,000. Johnson Hill. Slope, 30,000 tons; horse.
**	J. M. Lama, Cap. \$6,000, Tunnel, 15,000 tons; hand.
41	Last Run Coal Co. James Dew, prest.; Charles F. Myers, sery.; C. H. Donn, treas.; Joseph Slater, vprest, and gen. mgr. Cap. stk, \$30,000. Last Run. Drift; electricity (developing). Wm. G. Halbert, supf.
**	Nelsonville Sewer Pipe Co. (local). James Dew, prest.; C. H. Doan, seey, and treas. Cap. stk. \$25,000. Steam.
**	C. L. Poston & Co. Cap. stk. $\$100,000$ . C. L. Poston, mgr. Green Brier. Drift, 150,000 tons; steam. Cal. Mellinger, supt.
41	Springfield Coal & Ice Co., Springfield, Ohio, 93 S. Limestone st. E. S. Kelly, prest.; F. W. Ludlow, seey.; II, Voges, mgr. Cap. stk, \$50,000. Springfield. Tunnel, 25,000 tons; horse. Thomas Jones, supt.
New Albany. Mahoning (P. O. Salem) Ry, Co- tumbus 42, 169, 170, 181, 182, 523, 585, 765.	George Godward & Sons (local). Tunnel, 3,680 tons; horse,
New BerlinStark Ry, 778.	Clayton Hall (local), Cap. \$2,000. New Berlin, Slope, 740 tons; horse,
** **	Richard Warburton (local). Graham. Open pit, 700 tons; hand.
New Comerstown Tuscarawas Ry, 174, 584.	Thomas Langhead, Tunnel, 250 fons; horse,
New Franklin Stark Ry, Moultrie 563,	Wm, Sommerville (local). Cap. \$8,000. Slope, 1,800 tons.
New LexingtonPerry Ry. 164, 765.	D. E. Davis, Cap. \$1,000. Drift, 1,000 tons; hand,
**	Wales, Hammon & Collat. Nugent. Tunnel, 1,689 tons; hand. W. J. Ruddock, supt.
Ry, 503, 586,	Edward Broughton (local). Cap. \$1,000. Tunnel, 1,500 tons; hand.
** * ****	P. March & Son, Cap. \$6,000. March. Tunnel, 4,100 tons; hand. H. A. March, sapt.
*	Sterling Mining Co. N. F. Wood, prest.; H. D. Rileman, secy.; W. H. Warner, treas, and mgr. Cap. stk. \$10,000. Central Mine. Slope, 15,000 lons; steam. Jos. Farmer, supt.
New Philadelphia Tuscarawas Ry, 171, 175.	Goshen Conf Co., Cleveland, Ohio, 233 Superior St. J. A. Beidler, prest, and treas.; A. W. Brown, seey, Cap, stk. \$100,000, Goshen, Drift, 100,000 tons; steam, C. J. Brokenshire, supt.
	G. W. Mathias, Cap. \$15,000. Slope, 2,000 tons; horse, hand. Ed. Mathias, supf.
* "	H. S. Odbert & Co., Cleveland, Ohio, Western Reserve Bldg, Cap. stk. \$50,000, Odbert, Drift, 225,000 tons; steam, John Price, supt.
New Pittsburg . Hocking (P, O, Blatchford) Ry, 181.	New Pittsburg Coal Co., Columbus, Ohio, II and 12 Clinton Bldg. Thomas Johnson, prest, and freas; G. D. Preston, seey.; Edward Johnson, vprest, gen, mgr. and supf. Cap. 8tk, \$100,000. Powell's Run. Drift, 500,000 tons; steam, compressed air.

New Straitsville ...,Perry Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest, S. A. McManigal, seey.; W. J. Redington, freas; R. H. Johnson, v.-prest and gen, mgr. Rock Run, Nos. 5, 7, 9, 11, 13, 47, 49. Dritt, 604000 Inns; steam, electricity, horse

Ohio Coal Co., Columbus, Ohio, Board of Trade Bldg. Black Diamond. Drift, 50,500 tons; horse. David Wiams, supt.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

#### COAL-BITUMINOUS-(CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, EDUCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND RIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
North IndustryStark Ry, 778.	Wade Coal Co., Cleveland, Ohio, 11 Bratemahl Block, H. D. Dennis, prest.; John C. Allen, seey, and treas. Cap. stk, \$7,500. Wade. Thunel; horse, James Perkins, supt.
North Lawrence Stark Ry, Lawrence 563.	James Mullins& Sons, Wooster, Ohio. Cap. 850,000. Minglewood Nos, 1 and 2. Slope, shaft, 75,000 tons; steam. T. H. Elser, supt.
** **	Ridgway Burton Co. J. P. Burton, prest, and treas.; D. Johns, seey. Cap. stk. \$30,000. Palermo. Shaft. 41,000 tons; steam. John Hodgson, supt.
North Lima . Mahoning Ry, 156.	Adam Little and others (local). Spaidville. Shaft, \$50 tons; horse,
**	Daniel Little & Son (local), Cap. \$3,000. Shaft, 800 tons; steam.
	Solomon Paulin (local). Open pit, 1,000 tons; horse,
Oakdale Athens Ry, 182.	Somers Coal Co., Columbus, Ohio, 11 E. Town st. A. Brenholts, prest., James O, Somers, seey, and treas, Cap. stk. \$90,000. Sunday Creek. Shaft, 50,000 tons; steam. F. Williams, supt.
Oak HIII Jackson Ry, 43.	"Etna Fire Brick & Coal Co. "John D. Davies, prest.; Elias Morgan, seey.; J. J. Jones, treas, and mgr. Cap. stk. \$21,000. "Etna. Slope, 2,800 tons; hand.
Olive Furnace - Lawrence Ry, 156.	McGuglu & Co. (local). Olive Furnace. Tunnel, 1,000 tons. W. H. McGugin, supt.
Orbiston Hocking Ry, 181.	Raybould Coal Co., Columbus, Ohlo, 17 19 Clinton Bldg. Samuel Raybould, prest, and mgr.; Frank A. Prendergest, seey.; D. C. Postle, treas. Cap. stk. \$60,000. Slope; steam, electricity developing. Wm. Raybould, supt.
Osnaburg . Stark Ry, 173.	John Carruthers (local). Miller's. Dr'ft, 1,200 tons.
Palmyra Portage Ry, 376.	Hutson Coal Co., Cleveland, Ohio, Room 50 Willshire Bidg. H. D. Hutson, prest, and mgr.; H. D. Marble, seey, and treas. Cap. stk. \$25,000. Nos. 1 and 2. Shafts, 30,000 tons, steam. Thos. J. Williams, supt.
44	Palmyra Coal Co., Youngstown, Ohio, 114 N. Market st. Henry Wick, prest., W'Hord P. Ames, seey., treas, and mgr. A and B. Shaft, 50,000 tons; steam. H. B. Evans, supt.
Petersburg. , Carroll (P.O.Algonquin)Ry.523.	Charles W. Lewis, Allen, Slope, horse developing),
Pike Stark P. O. and Ry. North Industry 778.	Wm. Slutz (local). Open pit, 100 tons, hand.
Point Pleasant., Guernsey (P. O. name Dysons Ry, 174, 236.	Cisco Mining Co., Cleveland, Ohio, Western Reserve Bidg. W. R. Hmitington, prest.; N. H. Fonte, seey, and treas.; H. S. Odbert, mgr. Cap. stk. \$25,000. Cisco. Shaft, 50,000 tons. Steam. John Price, apt.
	Coal Ridge Salt Co. M. B. Wells, prest., John M. Davis, seey.; J. W. Thomas, mgr. Cap. 8tk. \$25,000, Coal Ridge, Tunnel, 14,468 tons, horse. Daniel W. Daniels, supt.
64 46	B. Kochler (local). Cap. \$2,000. Excelsior. Tunnel, 8,800 tons: horse. Dan Dichl, supt.
	Peacock Coal Co. N. Bengal, prest.: Fred Ebersbach, seey, and treas.: Martin Ebersbach, mgr. Cap. stk. \$25,000. Peacock. Slope, 100,000 tons, horse. Wm. Ebersbach, supt.
Ry. 588.	John E. Schnegg & Bros. (local). Cap. \$2,000. Schnegg. Shaft, 380 tons; steam.
Quaker Cify Guernsey Ry. 42.	Alex, Cochran. Cap. \$20,000. Tunnel, 75,000 tons; horse.
Ry. 181.	John Blore. Blore. Tunnel, 800 tons., hand. H. C. Booth, supt.
Redfield Perry Ry, 182.	Columbus & Eastern Coal Co., Columbus, Ohio, J. F. Harris, prest.; S. J. Flickenger, seey., James Cochran, treas.; C. A. Dean, mgr. and supt. Cap. stk. 8450,000. [Drift, 17,000 tons]; horse.
44 60	James Coyle & Son, Cap. \$5,000. Chestuit Grove. Drift, 12,000 tons; horse. G. W. Coyle, supt.
44	Cratty Coal Co., Columbus, Ohlo. Cap. stk. \$20,000. Wallace. Drift, 25,000 tons; horse. Wm. Wallace, supt.
	Davis, Mming Co., B. J. Davis, prest, and supt.; D. J. Williams, seey, and treas.; John M. Taylor, mgr., Cap. 8tk, \$4,000. Davis. Open pit, 25,000 tons, horse.
**	Standard Coal Co., Uolumbus, Ohio, 26 Wesley Block, 101 N. High st. D. Mathews, prest.; Charles Ratzel, seey, and treas. Cap. stk. \$100,000. Union No. 1. Open pit, 40,000 tons; horse. John Koppis, supt.
	Wallace Coal Co., Columbus, Ohio, John B. Hamilton, prest.; Joseph Crafty, seey, and treas.; Wm. Wallace, mgr. and supt. Cap. stk. \$20,000. Wallace. Shaft, 40,000 tons; horse.
Rendville Perry Ry, 182, 765.	W. P. Rend & Co., Chicago, III., 452 Madison st. Sunday Creek No. 3. Shaft, slopes; steam. James McLaughlin, supt.
Riverton Jackson Ry, Wellston 43, 156, 535,	Riverton Coal Co. F. A. Hockett, prest, and mgr.: J. E. Gimperling fr., seey, and treas. Cap. stk, \$5,000. Riverton, Tunnel; steam. J. J. Donahue, supt.
Rogers Columbiana Ry, 586.	Quaker Valley Mining Co., Voimistown, Ohio, 17 Public Square. Ralph J. Wick, prest.; M. C. McNabb, seey.; N. F. Wood, treas., J. M. Waller, mgr. Quaker. Drift, 35,000 tons; horse, James Thompson sr., vijit.
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Roscoe. Coshocton James II. Gillen Jocal C. Treadway. Drift, see tons: hand.
Roscoille Perry Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N.
seey, and treas. Can. sik. Standard Wesley Block, 101 N. Perry Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N. High St. D. Mathews, prest. Charles Ratzel, seey, and treas. Cap. 8tk. \$100,000. Standard No. 2. Open pit, 80,000 tons; horse, T. C. Hillards, supt.

Romine. . . . Muskingum Diamond Coal Co., Conesville, Ohio. Cap. \$6,000. Diamond. Tunnel, drift, 30,000 tons; horse. David (P.O. Carlwick) Ry.55. Davis, supt.

O. F. McKinney, Zanesville, Ohio, 42 N. Fourth st. Oak Grove. Drift, 50,000 tons; horse and hand, H. N. Houk, supt.

### COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPERINTENDENT,
TOWN AND COUNTY.	
St. Clairsville Belmont Ry, 42, 171, 699.	Black Diamond Coal Co. C. Troll Sons, proprietors. Cap. \$50,000. Black Diamond, 100,000 tons; horse; hand.
** ***	Ohio & West Virginia Coal Co. C. Troll Sons, proprietors. Cap. \$50,000. Ohio and West Virginia, 100,000 tons; horse, hand.
Salem Columbiana Ry, 585,	Homer Dunn (local). Dunn. Slope, 6,000 tons; horse.
** **	Howells & Ashmar (local). Cap. \$3,000. Greenamyer. Shaft, 3,000 tons; steam. J. K. Ashmar, supt.
**	Sheldon Parker (local). Parker, 300 tons; horse,
**	Salem Co, Cap. stk. \$50,000. Slope, Wm. Dunn, supt.
** **	Stephen Stone (local). Drift, 900 tons; hand,
Salineville . Columbiana Ry, 175,	S. S. Carnahan. Cap. \$8,000. Empire. Open pit, \$7,000 tons; steam, horse.
96 19	T. P. Francis (local). Slope, 2,000 tons; horse,
	H. H. Kirk (local). Drift, 3,000 tons; horse. A. D. Fotheringham, supt.
Sandrun, Hocking Ry, 181.	Columbus & Hocking Corl & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, Sevy; W. J. Redington, treas.; R. H. Johnson, vprest, and gen. nigr. Nos. 21 and 37. Drift, 120,000 tons; steam; electricity.
Ry. 55.	J. H. Voung. Cap, \$800. Raccoon. Tunnel, 2,000 tons; horse. Levi Vandyne, supt.
533.	Zanesville Coal Co., Zanesville, Ohio, 42 N., Fourth 8t. O. F. McKinney, prest, and mgr.; F. E. Huggins, secy.; J. B. W. Amsden, treas. Cap. stk. \$100,000. No. 7. Open pif, 56,600 tons. Thomas Opie, supt.
Shawnee	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bidg. J. O. Moss, prest.; S. A. McManigal, secy.; W. J. Redlington, treas.; R. H. Johnson, vprest, and gen. mgr. Nos. 31 and 35. Drift, 120,000 tons; steam; electricity.
**	Gosline & Barlow, Toledo, Ohio, 422 Madison st. Furnace. Slope, 100,000 tons; steam. J. P. Meredith, supt.
**	J. H. Hazelton, Rock Run. Tunnel; horse.
,,	New York & Perry Coal & Iron Co., New York City, 2 Wall st. New York. Tunnel, drift, 150,000 tons; steam. Samuel W. Butt, supt.
	Shawnee Valley Coal & Iron Co., Newark, Ohio. John C. Hamilton, prest.; L. J. Johnson, secy.; James H. Smith, treas.; Thomas Phillipe, mgr. and supt. Drift, 140,000 tons; steam,
	H. D. Tarney & Co., Columbus, Ohio. H. D. Tarney, prest.; T. W. Guthrie, seey.; G. S. Reeson, treas.; Thomas Cocoran, mgr. and supt. Cap. stk. \$25,000. XX. Drift, 360,000 tons; hand. Upson Coal Co. Upson. Tunnel, 125,000 tons; hand, horse, steam, electricity. R. E. Williams, supt.
Sherodsville. Carroll Ry, 173, 809.	
	Somers & Wainwright, Cleveland, Ohio, 8 Euclid av. Cap. \$25,000. No. 4. Slope, 5,200 tons; steam. Frank Melntosh, supt.
Smith Malloning (P, O, Beloit) Ry, 156.	
Steubenville,	Jefferson Coal & Iron Co. Wm. P. Hays, prest.; Geo. W. McCook, seey, and mgr.; Wm. Stanton, treas, Cap. stk, 850,000. Bustard. Shaft, 43,136 tons; steam. John Keilly, supt.
***	Stenbenville Coal Mining Co. R. Sherrard jr., prest.; George W. McCook, seey, and treas.; Wm. Smurth waite, mgr. and supt. Cap. 8tk. \$50,000. Shaft, 60,000 tons; steam; 6 coke ovens, capacity 1,000 tons.
Stewartsyille Belmont	11. L. Wilson (local). Cap. \$5,000. Wilson. Open pit, 5,000 tons; horse.  Robert Clark (local). Slope, 60 tons; hand.
Ry, Franklin 42.	Owen Meehan, Cap. \$39,000. Franklin, Tunnel, 65,000 tons; horse, W. T. Smith, supt.
	Owen Arenan, Cap. 830,000, Frankini, Tunner, 60,000 (ons.; noise, W. C. Simor, sup.; Syracuse Coal & Salt Co. Ralph Chency, prest.; P. W. Robbins, secy, and treas.; L. H. Bridgeman, mgr Cap. stk 810,000, Syracuse, Shaft, 52,500 (onis; steam, horse, Adam Duckworth, supl.
	W. L. Thomas & Son. Cap. stk. \$12,000. Fairview. Shatt, 5,000 tons; steam. W. L. Thomas, supt.
	D. D. Morgan (local). Open pit, 500 tons; hand.
Trimble Athens Ry, 344.	treas. Cap. stk. \$100,000. Crescent. Shaft, 200,000 tons; electricity; steam. S. F. Khox, supt.
Tuscarawas, Tuscarawas Ry, 584,	
"	Nicholas Hert. Cap. \$12,000. Mineral Ridge. Open pit, 20,000 tons; horse. A. Stuber, supt. C. P. Minnich. Cap. \$10,000. Mt. Carbon. Tunnel, 10,000 tons; hand. Benner Minnich, supt.
Uhrichsville, Tuscarawas Ry, 171, 584.	s Diamond Fire Clay Co. James Ball, prest.; J. M. Cooper, secy., treas, and mgr. Cap. stk. \$25,000. Dia mond. Tunnel, 7,000 tons; horse. George Ross, supt.
	D. Dunlavey (local). Drift, 1,000 tons; hand.
	John W. Fetter (local.) Cap. \$1,000. Felter, Open pit, 650 tons; hand.
we will be a second	Ebenezer H. Gowin (local). Fruit Hill. Open pit; hand.

LOCATION OF MINE.

# COAL-BITUMINOUS-(CONTINUED)

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, OCK OVERS, AND NAME OF MINE SUPPERINTENERY.
TOWN AND COUNTY.	
Uhrichsvifle Tuscarawas (Continued.)	Jacob Huston (local). Cap. \$5,000. Huston. Open pit, 550 tons; horse.
14	Juhn M, Smith (local). Scott. Drift, I,440 tons; horse.  Chrichsville Fire Clay Co. W. B. Thompson, prest.; T. J. Evans, seey.; George Beck, treas. Cap. 8tk., 8a0,000. Slope, 8,000 tons.
Utley . Athens Ry, 766.	Federal Valley Coal Co., New York, N. V., 44 Dey st. Clarence stephens, prest.; Samuel Snow, seey.; Melvin Stephens, treas. Cap. stk. \$1,000,000. Federal Creek No. 2. Tuanel, 30,000 tons; horse; breaker, washer, 425 coke ovens, capacity 5,000 tons. N. W. Musgrave, supt.
	Home Block Coal Co., Youngstown, Ohio. Late Hornicheel, prest.; James Davis, seey, and treas.; John Brunswick, mgr., and supt. Cap., vlk, \$1,000. Slope, steam (developing).
Wadsworth ,Medina Ry, 503,	Akron Coal Co., Akron, Ohlo, 112 S. Howard, st. H. E. Loomis, prest, and mgr.; James P. Loomis, secyand treas, Cap. stk, \$50,000. Stony Rhige. Slope, 60,000 tons; steam, V. Gerstenehlager, supt.
**	Card & Barrett Coal Co., Cleveland, Ohio, 44 Euc'ld av. Cap. \$30,000. No. 1, Eldorado. Slope, shaft, 67,174 tons; Steam. O. V. Dibble, supt.
"	W. B. Coleman. Rasor Slope. 7,000 tons; steam. J. Jordan, supt.
	Excelsior Mining Co. John J. Wagon, prest, and treas.; C. F. Wagon, seey, and mgr. Cap. stk. \$50,000. Excelsior. Slope, 100,000 tons: steam. Wm. Lydiard, supt.
Wakeup . Athens Ry, Broadwell 766,	J. R. Wickham. Slope, 300 tons; horse,
Washingtonvlile Commbiana Ry, 503,	Cherry Valley Iron Works, J. H. King, prest., S. E. Welker, seey.; C.M. Schmick, treas, Cap. 8tk. \$250,000. Cherry Valley. Slope, 120,000 tons; steam,
	Fair View Mining Co., Youngstown, Ohio, 114 N. Market St. W. H. Warner, prest., Wilford P. Ames, seey., treas, and mgr. Cap. 8(k, 85,000). Pair View. Stope, 30,000 tons; steam. John Hileman, supt.
**	Walter & Ferris Coal Co., Youngstown, Ohio, 47 Public Square, J. M. Ferris, prest, and treas; J. H. Streeter, seey.; J. M. Walter, ugr.   Drift, 90,000 tons, steam, horse,   James Thompson sr., ugr.
Waynesburg Stark Ry, 175,	George Minser (local). Cap. \$900. Baum. Slope, 1,000 tons; steam.
Wellston Jackson Ry, 42, 156, 535,	Comet Coal Co., Dayton, Ohlo, 104 Wayne av. W. W. Whitmore, prest.; J. D. Whitmore, seeg., treas, and mgr. Cap. 84k, \$500,000; Indiv. cap. \$48,000. Comet. Shaft, 36,000 tons, steam. Peter Gallagher, supt.
49	Eliza Coal Co., Dayton, Ohio, 235 S. Lincoln st. S. J. Patterson, prest.; G. O. Richardson, seey.; D. Arm- strong, treas., John James, mgr. Cap. stk. \$50,000. Eliza. Shatt, 50,000 tons; steam.
	Fluharl Coal & Mining Co. L. B. Boyd, prest., A. T. Holcomb, seey.; John J. Roberts, treas.; Theo. Fluharl, mgr. Cap. stk, \$200,000. Shatt, 190,000 tons; steam.
	Southern Ohio Coal & Iron Co., Dayton, Ohio, 302 E. Third st. A. A. Thomas, prest.; W. L. Caten, seey., treas, and mgr. Cap. stk. 8500,000. No. 3. Slope, 400,000 tons; steam. Allen Stift, supt.
	Superior Coal Co. M. S. Stunberger, prest., H. S. Willard, seey, and mgr. Cap, 8tk, \$400,000. Shaft; steam, horse.
Wellsville Columbiana	Wainwright Coal Co. R. H. Wainwright, prest., D. J. Harry, ugr, and supt. Cap. stk. \$75,000. Wainwright. Shaft, 150,000 tons: steam. C. B. Weaver Jocal J. Cap. \$5,000. Tunnel, 10,000 tons; hand. A. L. Weaver, supt.
Ry. 175, 533.	C. B. Weaver (local). Cap. 85,000. Tiginer, 15,000 tons; name. A. E. Weaver, supe.
Western Star Summit Ry, Akron 42, 169, 503, 582, 592, 778.	D. P. Davis (local). Slope, 2,000 (ons; horse,
W. Lafayette Coshocton Ry, 584.	Benj, C. Williams (local). Burts Run. Tunnet, 1,001 tons. hand.
	Ohio X, Pennsylvania Coal Co., Cleveland, Ohio. J. B. Zerbe, prest.: A. McGarry, secy. Open pit: horse, W. H. Ewing, supt.
Voungstown , Malioning Ry, 383, 503, 503, 592,	Witch Hazel Coal Coa. 44 N. Market st. Henry Wick, prest.: Wilford P. Ames, secy., treas, and mgr. Witch Hazel. Shaft, 49,000 tons, steam. David Jacobs, supt.
Zaleski, Vinton Ry, 43,	Zaleski Co. W. T. McClintick, prest., Amos Smith, seey, and treas.; Robert Thompson, mgr. Cap. stk. 8150,000. Zaleski. Drift, 35,079 tons; horse. T. L. Watkins, supt.
Zanesville Muskingum Ry, 42, 173, 563, 469, 182, 834.	
**	Bridewell & Barton, 265 E. Pike st. Slope, 4,039 tons, hand. George Jones, supt.
	J. A. Defenbeck, Cap. \$10,000. Oak View. Tunnel, 4,000 tons; horse. Thomas Toole, supt.
	Theo, Dietz (local). Slope, 35 tons
**	John (German (Jocal), Tunnel, 2,000 tons; hand. George German, supt. Geo, H. Harper (Jocal). Open pit. 1,800 tons; horse.
	Thomas Potts, 67 Adams st. [local]). Tunnel, 4,500 tons; hand.
	Wm. A. Werner, 66 Eighth st. clocal . Cap. 88,000. Tunnel, 14,000 tons; hand . James Foutz, supt.
Zoar Tuscarawas Ry, 174, 175, 809.	Wm, R. Jones, Cap. 88,009. Eagle Hill, Tunnel, 11,236 tons; horse,
	Zoar Society (local). Tunnel, 375 tons. hand.

Magnolia

MineralPoint, Tuscarawas C. E. Brothers (local). Open pit.

LOCATION OF MINE,

#### COAL-CANNEL

NAME OF COMPANY OF INDIVIDUAL LOCATION OF PRINCIPAL OFFICE NAMES OF OFFICERS CADITAL STOCK

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME AND KIND OF MISE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,  COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.	
TOWN AND COUNTY.		
Pigeon Run	O. Young Coal Co., Cleveland, Ohio, 725 Society Savings Bldg. Cap. stk. \$60,000. Camp Creek. Shalt, 50,000 tons; steam. Joseph Collier, supt.	
Warsaw Coshocton Ry, 169.	Pinkney Cannel Coal Co., Cleveland, Ohio, 505 Western Reserve Bidg. J. B. Zerbe, prest, and treas.; E. E. Barney, seey. Cap. stk. \$50,000. Watsaw. Drift, 40,000 tons; horse. W. G. Jones, supt.	
FIRE CLAY		
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LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.	NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MIKE OF BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUCRETHENDENT.	
TOWN AND COUNTY.		
Canal Dover, Tuscarawas Ry, 171, 174, 175.	Dover Fire Brick Co., Cleveland, Ohio, cor. Bank and Superior sts. C. S. Barrett, prest, and treas.; G. H. Ganson, secy.; P. Arnold, ugr. Cap. stk. \$100,000. Barretts. Tunnel, 30,000 tons; hand.	
Canton Stark Ry, 173, 585, 778.	Canton Brick Co. H. S. Belden, prest.; J. L. Higley, secy, and treas.; Peter Miller, mgr. Shale clay.	
Coleman Columbiana Ry. 503,	Union Fire Clay and Stone Co. C. Coleman, prest.; C. S. Coleman, secy, and treas.; Wm. Douglas, mgr. Cap. stk. \$10,000. Coleman. Tunnel, 17,000 tons; steam. J. T. Griffiths, supt.	

Ry, 169, 592,	Camp & Frompson, Cap, 400,000, Open pit, 18,000 tons; water, steam,
E. Palestine Columbiana Ry, 563.	State Line Sewer Pipe Co., James Mullins, prest.; Robert F, Taggart, secy, and treas.; Hugh Laughlin, mgr. and supt. Cap. stk. \$50,000. State Line. Slope, 50,000 tons; steam.
Empire Jefterson Ry, 175.	Congo Fire Clay Co. B. U. Wilkinson, prest, and mgr.; Thos, Wilkinson, secy, and treas. Cap. stk. \$30,000. Congo. Slope, 800,000 tons.
** **	Minor Fire Clay Co. Tunnel, 8,000 tons; horse,
Freeman Jefferson Ry, 175,	Freeman Fire Clay Co. C. A. Freeman, prest.; J. M. Freeman, secy. Cap. stk. \$80,000. Tunnel, 15,000 tons.
Greenford Mahoning Ry, 503,	Greenford Fire Clay Co. Cap. stk. \$5,000. Slope, 2,000 tons; steam.
Haydenville, Hocking Ry, 181.	Haydenville Mining & Manufacturing Co. Charles H. Hayden, prest.; J. W. Jones, seey., treas, and mgr. Cap. stk. \$410,700. Mingo. Open ptt, tunnel, 65,000 tons; steam.
1rondale "Jefferson Ry, 563,	Wm. Lacey, Cleveland, Ohio, 77 and 79 River st. Cap. stk. \$100,000. Lacey, sandstone and fire clay. Shaft, 18,000 tons; steam,
Lilly Scioto Ry, Gephart 43,	R. H. & G. C. Cook. Cap. \$5,000. Enterprise. Slope, 6,500 tons; steam. R. H. Cook, supt.
Logan Hocking Ry. 181.	Joe Bartholow, No. 6. Open pit, 10,000 tons,

Curchage Falls Supposit Comp & Thompson Car, Stoney Annual Land to the land

(Not a P. O.) Ry, 175,	treas, Cap. stk. \$10,000. Beatty. Tunnel, 8,000 fons; horse,
Malvern Carroll Ry, 175.	Malvern Clay Co., John H. Wilson, prest.; George H. Aller, seey., treas, and mgr. Cap. stk. \$6,500 Malvern. Slope, 20,000 tons; horse. Peter Reich, supt.
**	Phonix Fire Car Ca Ca Wasser pract, D. Palarts care and trong, Samuel Modifican por

" Phoenix Fire Clay Co. C. A. Weaver, prest.; R. Roberts, secy, and treas.; Samuel Hodkinson, mgr Cap. 8tk, \$75,000. Phoenix. Slope, 900,000 tons; steam. John Connor, supt.

Carroll Beatty Fire Clay Co., Canton, Ohio, W. M. Beatty, prest., mgr, and supt.; J. J. Whitacre, seev, and

Ry, 181, Tunnel, 45,000 fons; steam, New Lisbon, "Columbiana Keystone Fire Clay Co., Fred II, Pritchard, prest, and mgr.; Willis Jordan, secy, and treas, Cap, stk. Ry, 503, 586, \$25,000. Keystone, Tunnel, 15,000 fons; horse, John Gillis, supt.

Pertsmouth..., Scioto Star Fire Brick Works, E. B. Greene, prest; R. A. Mitchell, seey, and mgr. Cap. 8tk, \$48,000, Ry, 42, 165, 523, 520. Tunnel, 15,000 tons; Sandy..., Tussarawas Edward Holden, Point Savage, Tunnel, 5,000 tons; horse, Wm. Holden, supt. P. O. and Ry, Mineral Point 175, 778.

Point 175, 778.

Springfield ...... Smain Akron Clay Co. Archie Markle, seey, and treas.; Geo. W. Markle, mgr. Cap. 8tk, 85,000. Harshberger. (P.O.Akron) Ry, 42, 169. Open pit; steam. John Grant, supt. 500, 582, 592, 778.

# FIRE CLAY-(CONTINUED)

LOCATION OF MINE OR BANK, OR BANK, WATER ROUTES, AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTFUT IN TONS OF 2,00 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUFFRINTENDENT.
(Continued.)	Great Western Fire Clay Co. Cap. \$(50,000). Shaft, 24,000 tons; steam.
** **	[Aefferson Fire Clay Co. Cap. 855,00]. Jefferson. Shaft, 10,000 tons; steam. D. H. Kerr, supt.
Uhriehsville Tusearawas Ry, 171, 584.	Diamond Fire Clay Co., James Ball, prest.: J. M. Cooper, seey., treas, and mgr., Cap. stk. \$25,000. Tunnel, 20,000 tons; horse.
**	Uhrichsville Fire Clay Co. W. B. Thompson, prest., T. J. Evans, secy, and mgr.; George Beck, treas Cap. stk. \$30,000. Slope; steam.
Walkers. Columbiana Ry, 563,	N. U. Walker Clay Manufacturing Co. N. U. Walker, prest, treas, and mgr.; M. J. Ryan, seey. Cap. 8tk. 870,000. Walker. Open p.f. 15,000 tons, steam.

	IRON
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF GRE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Blackband, Tuscarawas Ry, 174.	Ridgway Burton Co., Massillon, Ohio, J., P. Burton, prest, and treas., D. Johns, seey. Cap. 8tk, \$30,000 Ankeny, black band ore. Tunnel, 25,000 tons, horse. Christian Maurer, supt.
Bloom Switch . Scioto Ry, 43,	Clare Iron Co., Portsmouth, Ohio, J. D. Fare, prest, and treas.; E. H. Clare, seey, and mgr. Cap. st. \$100,000. Black orc. Open pit, 10,000 tons. hand; charcoal furnace, capacity 3,000 tons. J. N. Foster supt.
ampbell Lawrence Ry. Mt. Vernon Fur- nace 156.	Campbell fron Co., Ironton, Ohio. J. H. Moulton, prest.; H. H. Campbell, seey, and freas.; J. W. Cambell, mgr, and supt. Cap, 8tk, 810,001. Mt. Vernon Furnace, iron ore. Open pit, 10,000 tons; hand.
'anal Dover ,Tuscarawas Ry, 171, 174, 175.	Penn Iron & Coal Co., J. P. Burton, prest., H. S. Ream, seey., S. W. Croxton, treas, and mgr., Cap. 80 800,000. Bahler, black band ore. Slope, open pit, 15,000 tons; borse, hand, furnace. George Briefsund.
Fairfield Tuscarawas (P. O. New Philadel- phia) Ry, Reed's Run 584.	G. V. Kollar. Cap. \$5,000. Black band ore. Tunnel, 3,000 tons; hand.
langing Rock Lawrence Ry, 523.	Means, Kyle & Co. E. B. Willard, prest., James Bull, seey, and treas. Cap. 8500,000. Plne Grove carbonate from orc. Open pit, tunnel, 25,000 tons, hand; charcoal furnace. A. R. Mackintosh, supt.
Mt.Vern'nFurn.Lawrence (P.O.Campbell)Ry.156.	Campbell Iron Co., Ironton, Ohlo, J. H. Moulton, prest.; H. H. Campbell, seey, and treas., J. W. Cambell, mgr. Cap. 8tk. \$100,000. Mount Vernon Furnace, iron ore, 10,000 tons; hand.
New Philadelphia Tuscarawas Ry, 171, 175.	George V. Kollar, Cap. 85,000. Black band ore. Tunnel, 3,000 tons; hand.
Mive Furnace Lawrence Ry, 167.	McGagen & Co. Olive Furnace, limonite. Tunnel, 10,000 tons; charcoal furnace.
Post Boy . Tuscarawas Rv. 174.	Black Band Iron Co., Marletta, Ohio, A. J. Warner, prest., Geo. H. Jones, seey. Cap. stk. \$100,00 Post Boy, black band orc. Drift, 10,001 tons; horse, A. J. Onstine, supt.
	Morris & Howells, (anal Dover, Ohio. Cap. stk. \$10,000. Camp Morris, black band ore. Tunnel, 25,000 fous: horse. William Morris, sunt.
Radelin Vinton Ry, 181,	D. H. Pearce, Aron ore, Tunnel, open pit, 5,000 tons; hand, A. Arbaugh, supt.

### SALT

LOCATION OF OR WELL RAILWAYS, WATE AND SHIPPINO TOWN AND	R ROTTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTFUT IN TOSK OF 2000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
Pomeroy Ry. 181.	Meigs	Buckeye Salt Co., George McQuigg, prest.; A. D. Brown, seey., treas, and mgr. Cap. stk. \$65,000. Coarse, fine, darry. 75,000 brls.; steam.
	**	Coal Ridge Saft Co. M. B. Wells, prest.; John M. Davis, secy, and treas.; J. W. Thomas, mgr. Cap. stk. \$25,000. Coal Ridge. 50,000 brls.; steam.
**	**	Ebersbach, Schaefer & Co., Cap. \$25,000. Pomeroy. Common, fine, dairy. Well, 60,000 brls., steam.
6.4	**	Excelsior Salt Works. B. Kochler, propr. Cap. \$3,000. Excelsior. Dairy, common, fine. 4 wells. 11,000 tons. horse.
**	44	John J. Juhler. Cap. \$30,000. White Rock. Common, fine. Artesian wells, 50,000 brls.; steam.
Syracuse Ry, 533,	Meigs	Syraeuse Coal & Salt Co. Ralph Cheney, prest. P. W. Robbins, seey, and treas.; L. H. Bridgeman, mgr. Cap. 8tk, \$60,000. Syraeuse. Common. line, dairy. Shaff; well, 42,500 bris.; steam, horse. Adam Duckworth, supt.

# STONE, MARBLE, GRANITE AND ONYX

	Old, Millibert, Charling Mills Givin
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine or Quarry, Kind of stone, Kind of Mine or Quarry, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stone or Marrle Mills, Limerilas and Capacity, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	COLDERT, DICH, AND NAME OF MINE OUTERNIENDENT.
Ry, 592, 169, 42, 506.	J. Hugill, 114 South College 8t. Cap. 8tk. \$20,000. Sandstone. Open pit, 4,800 tons; horse.
Amherst Lorain Ry, 383.	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, prest.; L. P. Haldeman, v-prest, and seey; C. C. Caskey, treas.; D. D. Haldeman, mgr. Cap. 8tk. \$200,000. Sandstone, Open pit, 14,000 (ons; steam; mill.
Amity , Montgomery Ry, Trotwood 170, 584.	A, J. Shaffer (local). Limestone. Hand; mill.
Ry, 173,	Kitzmiller Stone Co., Canton, Ohio, 18 W. Eighth st. John W. Gabriel, prest., seey, and treas.; II. A. Kitzmiller, ngr. Cap. stk. \$22,500. Kitzmiller, sandstone. Open pit, 18,000 tons; steam; mill. John Saunders, supt.
Berea, Cuyahoga Ry, 170, 383,	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, prest.; Geo. H. Worthington, sery, and treas. Cap. stk. \$2,250,000. Berea, sandstone. Open pit, 42,000 tons; steam; mill. James Nicholl, gen. supt.
Berlin Heights Erie Ry, Ceylon 383.	G. A. Baillie, Sandstone, Slope, 16,000 tons; steam.
Bluestone Cuyahoga Via Cleveland 170, 173, 175, 383, 502, 503, 778.	Maxwell Rolf & Co., Cleveland, Ohio, 5 Euclid av. Cap. stk. \$20,000. Bluestone. Open pit, 100,000 tons; steam; mill.
Blufiton Allen Ry, 378, 582,	Siddall & Townsend. Limestone. Open pit, 45,600 tons; steam; limekiln, capacity 2,400 tons.
Bowling Green Wood Ry, 156, 760.	Murphy & Mercer, Cap. stk. \$3,000. Limestone, 20,000 tons; steam; mill, George E. Mercer, supt.
Briggs Washington Ry, 43,	D. B. Calder, Cap. \$2,000. Constitution, sandstone. 200 tons; steam
#	F. W. Knowles (local), Grindstones. 200 tons; hand; mill,
Brookfield Trumbull Ry, 383.	Hamilton & Dailey Stone Co. Cap. stk. \$8,000. Whittaker, sandstone., Open pit, 2,000 tons; steam; mill.
	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, prest.; George H. Worthington, seey, and freas. Cap. stk, \$2,250,000. Brownhelm, sandstone. Open pit, 42,000 tons; steam; mill. James Nieholl, gen. supt.
Buena Vista Scioto Ry. 583.	Buena Vista Freestone Co. Adolph Cadm, prest.; W. L. Calm, secy. Cap. stk. \$50,000. Buena Vista, freestone. Open pit, 20,000 tons; steam; mill. Adolph Cadm, supt.
44	John Miller & Sons. Cap. stk. \$25,000. Buena Vista, freestone. Open pit, 5,000 tons; steam.
Campbell Lawrence Ry. Mt. Vernon Fur- nace, 156,	Campbell Iron Co., Ironton, Ohio. J. H. Moulton, prest.; H. H. Campbell, seey, and treas.; J. W. Campbell, mgr. and supt. Cap. stk. \$100,000. Mt. Vernon Furnace, limestone. Open pit, 20,000 tons; hand.
	F. E. Wiehe (local). Cap. \$2,000. Limestone, Open pit, 578 tons; hand.
Centreville Montgomery Ry, Dodds 158.	James Maurel, Sandstone, 1,400 tons,
Clarksfield Huron Ry, 809,	Furlong Stone Co. Cap. stk. \$10,000. Furlong quarry, sandstone. Open pit; steam and horse; mill. Daniel Malloy, supt.
Cold Springs Clarke Ry, 170.	Moores & Co. Limestone, Slope; steam, W. H. Kennedy, supt.
Columbia Station Lorain Ry, 170.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, prest.; George II, Worthington seev, and treas. Cap. stk. \$2,250,000. Columbia, sandstone. Open pit. 42,000 tons; steam; mill. James Nicholl, gen. supt.
Constitution., Washington Ry, 43,	Constitution Stone Co. M. J. O'Connor, prest, and treas.; Thomas Cleary, secy. and supt. Sandstone 2,000 tons; steam; mill.
Covington Miami Ry, 156, 584.	J. W. Ruhl, Cap. \$20,000, Rocky Branch, limestone. Open pit, 18,000 tons; steam; mill, limekilns capacity 2,625 tons. J. R. Rench, supt.
Edinburg . Portage Ry, 175.	W. B. Davis. Red sandstone. Open pit; hand.
	W. E. Marsh & Co. Limestone. Open pit, 30,000 tons; hand. W. E. Marsh, supt.
	M. J. Barnes. Cap, \$8,000. Sandstone, limestone. Open pit; hand.
	George E, Bryant, 13 W, Third st. Cap. \$10,000. Sandstone. Open pit, 800 tons; steam; mill.
	H. E. Mussey & Co. Mussey, sandstone. Open pit: steam.
Forest Dale, Lawrence Ry, Ironton 156, 329, 523, 533,	Edward Adkins. Limestone. Open pit, 50,000 tons; hand.
	D. P. Lloyd Co. Cap. \$30,000. Limestone. Open pt, 15,000 tons; steam; limekiln, capacity 9,000 tons.
	Gottron Bros. Limestone. Open pit, 6,400 tons; steam, hand: limekiln, capacity 60,000 brls.
Fulton Morrow Ry. 765.	J. B. Rinchart, Cap. \$2,000. Fulton, sandstone. Open pit, 14,000 tons; steam. B. J. Lyons, supt.

Owen.. Ry. tst.

Peninsula . Ry, 778.

# STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY ON INDIVIDUAL, LOCATION OF PRINCIFAL OFFICE, NAMES OF OFFICERS, CAFITAL STOCK, NAME OF MINES OR QUARIN, KIND OF STONE, KIND OF MINES OR QUARIN, CHOOSE OF STORE OF STORE OR MARBLE MILLS, LIMERIUMS AND CAPACITY, ETC., AND NAME OF MINES EXPERIMENSAME.
TOWN AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SCIENTIFICATI
Fulfonham Muskingum Ry, 182.	Hoover Bros. Fultonham, limestone. Open pit, 10,000 tons; steam; limekiln,
Grafton Lorain Ry, 170, 171.	Elyria Stone Co., Elyria, Ohio. H. E. Corning, prest.; W. L. Fay, seey., treas, and mgr. Cap. stk. \$65,000, Elyria, sandstone. Open pit, 320,000 tons; steam; mill. Charles F. Peebles, supt.
	Grafton Stone Co. E. S. Flint, prest.; W. S. Miller, seey.; Col. S. Bliss, treas.; W. E. Miller, vprest. and mgr. Sandstone, 80,000 tons; Cap. stk, \$120,000; steam; mill.
Greenfield , Huron (P. O. Steuben) Ry, 42,535.	Coit & Graham. Steuben, sandstone. Open pit, 500 tons; hand.
	Means, Kyle & Co. E. B. Willard, prest, and mgr.; James Bull, seey, and treas. Cap. 8tk. \$500,000. Junior Hearth Stone, sandstone, 'Hand' (developing).
Independence .Cuyahoga Ry, 778.	d, Bender (lessee). Smiths, sandstone. Open pit, 300 tons; horse.
9	Little & Pettibone, Cleveland, Ohio, 5 Enelid av. Andependence, freestone. Mill
**	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, prest.; L. P. Haldeman, vprest, and seey.; C. C. Ciskey, treas., D. D. Haldeman, negr. Cap. 8tk, 8200,000. Sandstone. Open pit, 14,600 tons; steam; mill.
Ry, 169,	Killbuck Brown Stone Co. Chas, E. Duer, seey.; Z. T. Duer, treas, and mgr. Killbuck, sandstone. Open- pit; electricity, horse, hand; mill. Enos Schordorf, supt.
La Grange. Lorain Ry, 170,	Cleveland Stone Co., Cleveland, Ohio, Wllshre Bldg. J. M., Worthington, prest.: George H. Worthington, seey and treas. Cap. 84k, \$2,250,000. La Grange, sandstone. Open pit, 42,000 tons; steam; mill. Jax. Nielboll, gen. supp.
LaneasterFairfield Ry. 164, 181.	F. C. Neeb. Cap. \$50,000. Alleghamy, sandstone. 75,000 tons; steam, horse. Wm. Stracham, supt.
	Lime City Co. C. H. Sawyer, prest., J. P. Bronson, seey, and treas. G. S. Breed, mgr. Cap. 8tk. \$50,000. Lime City, limestone. Open pft, 60,000 tons, steam; 4 limekilns. J. Heilerman, supt.
**	Michigan Stone & Supply Co., Detroit, Mich., 40 W. Fort st. Gus. F. Smith, prest, and mgr.: Cameron Curle, seey, and treas. Cap. stk, \$100,000, Homestead Quarry, limestone. Open ptt, 50,000 tons; steam. Orlando Edinous, supp.
Lucas Richtand Ry, 585,	Richland Stone Co., Mansfield, Ohio, Sayings Bank Bldg. H. C. Post, prest.: Ed H. Zurhorst, seey.; Geo. E. St. John, treas., Chas. W. French, ngr. Cap. stk, \$500,000. Lucas. sandstone, slope and steam.
Lykens Crawford Ry, 582.	A. J.Brown, Limestone; open p't; steam.
Ry. 181.	J. H. Pilcher (local). Pilcher, limestone. Open pit, hand.
Ky. 42.	Joseph McClain & Son, Bellaire, Oh'o, 3322 Guernsey st. – Joseph McClain, prest, and mgr.; Wm. G. Mc- Clain, seey, and treas. — (ap. 8tk. \$10,000. – McClainville, sandstone, — (pen pit, 20,000 tons; steam, Henry Hally, squ.
Ry, 584.	T. J. Price & Co., Columbus, Olno, 72 N. Seloto St. Marble Chil, fime-stone. Open p.t. 90,000 tons: steam, fimekalu, capacity, 5,000 tons. J. E. Price, supt.
Marblehead Offawa Ry, 384.	Kunz & Johnson, Sandusky, Ohio, Water st. Cap. \$75,000. Limestone. Open pit, 100,009 tons; hand: limeklin, capacity 450,000 brls. John Burns, supt.
**	Sloss Marblehead Lime Co. [8, Sloss, prest, and treas.] F. Vandervell, mgr. [8] Sloss Marblehead, limestone, Open pit.
	Vogt Stone Co., Win, H. Vogt, prest., Win, McM flan, seey, and treas.; F. T. Vogt, mgr, and supt. Cap. stk. 88,800. sandstone. Open pit, 15,000 tons, steam, mill.
**	Warthorst & Co. Sandstone, sand.
Mt.Vern'nFurn,Lawrence (P.O.Campbell (Ry.156,	bell, mgr. Cap. 8tk. \$100,000. Mt. Vernon Furnace, limestone. Open pat, 12,000 tons; name.
Ry. 42, 584.	George Havens. Newark, freestone. Open pit, 2,000 tous; hand,
Ry. 503, 586,	John H. O'Mara, Cap. 86,000. Excelsior, sandstone. Open pit, 4,000 tons, hand.
Newport Adams (P. O. name Wilson) Ry, 165,	Highland Stone Co., Norwood, Ohio, F. J. McFarlan, prest, and seey., John W. Talball, seey., mgr. and supt. Cap. stk, 85,00. Limestone. Open pit, 19,500 tons; mill.
**	<ol> <li>X.F. Tueting, Cincinnati, Ohio, 50 Webster st. Cap. stk. \$10,000. Shimar, limestone. Open pit, 2,000 tons; hand. F. Tueting fr., supt.</li> </ol>
North Amherst Lorain Ry, 383,	Cleveland Stone Co., Cleveland, Ohio, Wilshire 19dg., J. M. Worthington, prest., George H. Worthington, seey, and trens. Cap. 8tk, \$1250,000. North Amherst, sandstone. Open pit, 45,000 tons: steam; mill. James Nicholi, sen. supt.
Oliusted Falls Cuyahoga Ry, 383,	Cleveland Stone Co., Cleveland, Ohio, Wi'shire Eldg, J. M. Worthington, prest, George H. Worthington, seey, and treas. Cap. stk. \$2,250,000. Ohnstead Falls, sandstone. Open pit, 42,000 tons; steam; mill, James Nicholl, gen. supt.
Otway Seioto Ry, 165,	W. R. Smith & Sons. Freeman, sandstone. Open p.t. 65,000 tons; steam, horse, hand. F. C. Smith, O. F. Smith and James Barker, supts.

Marion D. Owens & Son. Owens, limestone, sandstone, 32,850 tons; steam, limekilm, capacity 2,409 tons, Daniel Owens, supt.

Summit Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest.; George H. Worthington, seey, and treas. (ap. 8tk, 82230.07). Pennisula, sandstone. Open pit, 42300 tons; steam; mill. James Nichell, gen. supt.

### STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LILIEBELINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Peninsula Summit (Continued.)	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, prest.; L. P. Haldeman, vprest, and seey.; C. C. Caskey, freas.; D. D. Haldeman, mgr. Cap. stk. \$200,000. Sandstone. Open pit, 14,300 tons; steam; mill.
Plymouth , Richland Ry, 42, 582.	Plymouth Stone Co. D. L. Critten, prest.; Jacob Wallace, seey, and treas.; C. H. Whittier, mgr. and supt. Cap. stk. \$6,000. Sandstone. Open pit; steam, horse.
Point Pleasant Clermont Ry, 533,	Galbreath & Bushman. Cap. \$3,000. Limestone. Open pit, 6,000 tons; horse, hand.
** **	Point Pleasant Stone Quarry, Limestone, Open pit, 750 tons; hand, George F, Knabb, supt.
Ridgeville Lorain (P. O. Bement) Ry. Shawville 383.	Dallas Beebe, Cap, \$3,000. Beebe, sandstone. Open pit, 75,000 tons; horse, hand.
Rockbridge Hocking Ry. 181,	Detroit & Hocking Valley Red & Brown Stone Co., Detroit, Mich., 55 Champlain st. Joseph S, Visger, prest., Richard J, Sinclair, secy.; G, Chirra, treas.; Charles C, Jamy, mgr., Cap. stk. \$100,000. Hocking Valley, sandstone. Open pit, 15,000 tons; steam. II. A, Flowers, supplied to the Computer of the
St. James Morrow Ry, 170,	Buckeye Stone Co., J. J. McClarren, prest.; A. W. Monroe, seey, and treas.; J. H. McClarren, mgr and supt. Cap. stk. \$20,000. Buckeye, sandstone. Open pit, 15,000 tons; steam.
Silverton, "Hamilton Ry, 158,	J. K. Galloway, Limestone, Open pit,
SpringfieldClarke Ry, 170, 503, 535, 584.	Wm. K. Duke, 97 W. Mulberry st. Mill Creek, limestone. Open pit; hand; mill,
** **	Mills Bros., 107 S. Limestone st. Cap. stk. \$40,000. Limestone, Open p.t. 25,000 tons; steam and hand; mill, kiln, \$,500 tons. Henry Hoss, supt.
Stony Ridge Wood Ry, 765.	Luckey Stone Co., Ehnore, Ohio. J. B. Luckey, proprietor. Luckey, limestone. Open pit, 40,000 tons; steam; mill.
Sugar Grove Fairfield Ry, 181.	R. L. Sharp Stone Co. Sandstone, Open pit; hand, horse,
44	Wm. Sharp. Buckeye. Open pit, 2,000 tons; hand.
Sulphur Grove, Montgmry Ry. Dayton 156, 170, 207, 508, 584,	D. P. Oram. Limestone. Open pit, 1,000 (ons; hand.
Sunbury, Delaware Ry, 169,	Sunbury Stone Co. William Bunyan, prest.; Edward T. Bunyan, secy, and mgr. Cap. stk. \$25,000. Sunbury. Open pit, 4.800 tons; steam; mill. John Hunter, supt.
ThompsonGeauga Ry. Madison 383, 502.	Chrys Sidley, Cap. \$2,000, Sandstone, 20,000 tons; horse and hand; mill.
Tiffin Seneca Ry. 42, 170, 530,	J. Poling, Cap. \$3,000. Limestone. Open; hand.
Vincent Washington Ry, 765,	Hayes Bros. Cap. \$15,000. Sandstone. Open pit, 1,000 tons; steam; mill.
Wakeman Huron Ry, 383,	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bldg. J. M. Worthington, prest,; George H. Worthington, seey, and treas. Cap. stk, \$2,250,000. Wakeman, sandstone. Open pit, 42,000 tons; steam; mill. Jas. Nicholl, gen. supt.
Waverly	Wayerly Stone Co. W. S. Jones, prest.; J. W. Logan, seey, and treas.; R. E. Sharpe, mgr. and supt. Cap. stk. \$5,000. Sandstone. Open pit, 24,000 tons; steam, horse, hand; mill. R. E. Sharpe, supt.

Cuyahoga Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest; George H. Worthington, seey, and treas. Cap. stk, \$2,250,000. West View, sandstone. Open pit, 42,000 tons; steam; ntll. Jas. Nicholl, gen supt.

Whitehouse, Ry, 784.

Lucas J. L. Pray & Son. Cap. stk. \$3,000. Sandstone. Open pit, 10,000 tons; hand; mill. J. E. Pray, supt.

West View. Ry, 170.

Youngstown Mahoning Youngstown Stone Co. R. T. Walker, prest.; F. P. Hood, secy.; Wm, Cornelius, treas.; George W. Canfield, Mgr. Cap. stk, \$5,000. Youngstown, sandstone. Open pit; steam; sand mill.

Zanesyille ...Muskingum E. M. Ayers, 108 Main st. Cap. \$10,000. Dillon Falls, sandstone. Open pit, 10,000 tons; steam. Harry Ry, 42, 164, 170.

A. Emery. Cap. \$10,000. Putnam, sandstone. Slope, 7,000 tons; hand. John W. King, 15 N. Fourth st. Kings, fire clay, sandstone. Open pit, 3,000 tons. George Smith, supt.

Philip Mowrin (local), 98 Elm st. Cap. \$1,500. Mowrin, limestone. Open pit, 9,000 tons; hand. Limekiln. 6,000 tons capacity.

SEE ALSO SUPPLEMENTARY LIST

# OREGON

#### COPPER

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Gold Beach .... Curry N. Huntley, Black Diamond, Open olt, 49 tons; refractory; hand

GOLD AND SILVER				
Applegate Jackson Ry, Jacksonville 776 (17 miles),	John T. Layton, Cap. \$30,000, Farris Gulch, gold, Placer; hydraulic,			
Ry , 692 ,	Ashland Mining Co., Portland, Ore., 43 Stark st. P. Kelly, prest.: H. T. Coffin, seey, and treas. Cap. stk. \$200,000. Patton and A. N. King, gold and silver. Shaft and tunnel: free. Joseph A. Wilson, supt.			
Auburn Baker Ry, Baker City 776.	Jas, U. Wells, Gold, Shaft, horse,			
Baker Clty Baker Ry, 776.	Baisley-Elkhorn Mining Co., Portland, Ore., (40 First st. 4. W. Nelson, prest., mgr, and supt. 8, J. Barber, seey. Cap. stk. \$1,000,000. Elkhorn, gold and silver. Shafts, tunnels and levels, 20,000 tons; free and refractory; steam; Bryan and Huntington mills.			
**	Baker City Gold & Silver Mining Co. Asidor Fuchs, prest., A. B. Elmer, seey.; A. H. Terry, treas. Cap. stk, \$200,000. Monumental and Tight Squeak, gold and silver. Shaft and tunnels; free (developing).			
	Elkhorn Gold Mining Co., Portland, Ore., 183 First 81. J. W. Nelson, prest, 1600. Notice, seey.; North-Western Loan & Trust Co. treas, Lewis D. Nelson, mgr., and supt. Cap. stk, 300000, Gold Medal and Gold Eagle, gold and silver. Shafts, tunnels, drifts and slopes, 2000 tons; free and retractory, steam; mill.			
(12 mlles).	Elkhorn Mining Co., Portland, Ore. J. H. Robbins, prest., mgr., and supt.; W. L. Harmon, Secy.; J. G. Davldson, treas. Cap. stk. \$50,000. Elkhorn, gold and silver. Tunnel; free and refractory; water: mill.			
(37 mlles),	Eureka & Evcelsior Consolidated Mining Co., St. Louis, Mo., 76; Oriel Bldg. R. C. Kenus, prest., C. H. Snitth, seev., C. M. Domaldson, mgr. Cap.stk. 80,000,000. Eureka and Excelsior, gold and silver. Tunnels: refractory; steam, 20 stamp.			
(35 miles),	Geiser Estate. Albert Geiser, mgr. Bonanza, gold. Tunnel, 7,509 Ions. free. steam; 40 stamps.			
4.	Hodgins & Rohner, G. R. Hodgins, prest, and mgr., John Rohner, secy., P. R. Beship, treas, and supt. Cap. \$30,000. Cow Boy, gold and silver. Tunnel; free (developing).			
**	Jones & Carpenter, Cap. \$60,000. Never Sweat, gold. Placer, deep; hydraulic and water. Moses Carpenter, supt.			
41 44	Robinson Gold Mining Co., Geo. W. Robinson, prest, and seey.; D. W. C. Nelson, mgr. and supt. Cap. stk. \$1,000,000. North Star, gold. Tunnel, 1,600 tons; refractory.			
(16 miles).	Robinson Mining Co. S. Ottenheimer, prest.; E. F. Waring, seey., D. W. C. Nelson, treas., mgr, and supt. Cap. 8tk. \$1,000,000. Robinson, gold. Drift, refractory developing.			
44 94	Snowstorm Consolldated Gold Mining Co., Bedford, Indiana. Thomas V. Thornton, prest.; Edmund B. Thornton, seey, and treas; J. E. Meacham, mgr, and supt. Cap. stk. \$500,000. Snowstorm, Golden Charlot, Thornton, Windsor, Lily White, St. Albans and Eureka, gold. Slope and shaft, 9,000 tons; horse, water; fostamps.			
**	Washington Gulch Mining Co., Portland, Ore., 354 E. Oak st. 8, M. Keenan, prest., A. L. Keenan, seey, and treas.; Wm. Deemer, mgr, and supt. Cap. stk. \$125,000. Washington Gulch, gold. Placer, hydraulic.			
Bolt dackson Ry, Woodville 692.	Alexander Orme, Brother, gold. Placer, water.			
Bridgeport Baket Ry.Baker City 776 (20 m.)	Burnt River Mining Co. Archie J. Murray, prest.; William Cox, secy.; J. H. Murray, treas.; F. Caym, mgr. and supt. Cap. 80,000. Chicken Bar, gold. Placer; hydraulic.			

Henry Heisy. Blue Bar, gold. Tunnel, placer.

Cable Cove . Baker (P. O. Baker City) Ry, McEwen, 776 - 16 m.).

Eagle Mining Co. L. U. Colbath, prest., W. S. Crismon, seey., and treas.; John C. Young, mgr. Cap. \$1,000,000. Eagle Group, gold and silver. Shafts and hunnels, to) fons; free and refractory.

Caleb

eb Grant Owens, Ericson & Taswell. Spanish Gulch, gold. Placer; hydraulic. Ry, The Dalles, 776.

Canyon City. . . Grant Ry.Baker City 776(75 m.).

Grant Hugh Cannon, Gold, Placer; water, hydraulic.

Clark & Rulison, Last Chance, gold. Placer, hydraulic. William Hahn, Quartz Gulch, gold. Placer: hydraulic.

Humboldt Mining Association, H. W. Stoan, mgr. Cap. stk. \$25,000. Humboldt, gold. Placer, hydraulic J. A. Whitman, Cap. \$1,000. Whitmans, gold. Placer; hydraulic, water,

Canyonville Ry. Riddles 692.

Douglas Ash & McWilliams, Cap. \$15,000. McWilliams and Ash, gold. Placer; hydraulic.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

Ry, Huntington 776 (20

Cornucopia .. Union Ry, Union 776 (40 m.).

Ry.Baker City 776(60m.).

Connor Creek

#### GOLD AND SHATER (CONTINUED)

Dinning & Thomas, Cap. stk. \$2,000. Albatross, gold. Open pit, placer; water.

Douglas D. J. Bollenbough, Pickune, gold. Placer; hydraulic, water,

D. A. Levens, Douglas, gold. Shaft and tunnel; free; water.
James Yokum, Cap. \$500. Gold. Placer; hydraulic (developing).

supt.

orrey, supt.

R. Kelly, supt.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind

OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Last Chance Mining Co. Last Chance, gold, silver and copper. Tunnel; free; water. E. L. Goodridge,

Baker Connor Creek Mining & Milling Co., Portland, Ore., Abington Bilg. S. G. Reed, prest.; Martin Wynch, seey, and treas; d. Myrick, ingr. and supt. Cap. 8tk, \$1,000,000. Connor Creek, gold. Tunnel, 16,000 tons; free; water; 35 stumps.

Union Companion Mining Co. Gold and silver. Shaft and tunnel; free and refractory; steam; 5 stamps. E. P.

New Discovery Mining Co. New Discovery, gold and silver. Tunnels; free and refractory (developing).

Norway, Mining Co., Cap. stk, 85,000. Norway, gold, Tunnel, 3,600 tons; free and refractory; water; Huntington mill. Geo. Lindgreen, supt.

Nyanza Mining Co., Nyanza, silver. Shaft; free and refractory (developing). Robert Kelly, supt.

Oregon Gold Mining Co., Louisville, Ky., 544 W. Main st. Geo. H. Dietz, prest.; H. W. Bohmer, seey.;

A. L. Schmidt, frees; O. F. Steen, mgr. Cap. stk, \$900,000. Red Jacket and Whitman, gold and silver, Timnel, 10,000 tons; free and refractory; steam and water; 20 stamps. A. H. Wilson, supt.

Last Chance Mining Co. Last Chance, gold. Tunnels: free and refractory (developing).

		timner, 10,000 tons; free and refractory; steam and water; 20 stamps. 4. H. Wison, supt.
	**	Queen of the West Mining Co., gold. Shafts and inclines; free; hand (developing). Robert Kelly, supt.
**	**	Stella Mining Co. Stella, gold and silver. Tunnel; free and refractory (developing). W. S. Wilson, supt.
**	**	Union Mining Co. Anstead, Tice & Burdett, proprs. Union, gold and silver. Tunnel; free and refractory (developing).
Eugene P. O. and l Creek 632.	Ry, Myrtle	Myrtle Creek Hydraulic Gold Mining & Manufacturing Co., Eugene, Ore, L. W. Brown, prest., mgr. and snpt. J. F. Robinson, secy.; T. G. Hendricks, treas. Cap. stk, \$20,000. Myrtle Creek, gold. Placer; hydraulic.
Glendale Ry, 692,	.Douglas	J. T. C. Nash, Nash, gold, Placer; hydraulic, water.
Granite . Ry.BakerCit	Grant y776(35m.).	Baisley & Klopp, Cap, stk. \$33,000. Baisley & Klopp, gold. Placer, deep; hydraulic, water. Isaae Klopp, supt.
		Fairview Ophir Mining Co., Pendleton, Ore., Calvin cor. W. R. R. 8. Peter Parmentior, prest.; R. R. Dixon, seey.; David Horn, treas.; Frank Duprat, mgr. and supt. Cap. stk. \$150,000. Encouragement, gold, silver, copper and lead. Shaft; hand and horse; mill, 40 stamps.
**	**	Granite & Greenhorn Milling and Mining Co. A. G. Tabor, prest.; C. S. Miller, seey., mgr, and supt. Cap. stk, \$1,250,000. Monumental and Morris Consolidated, silver. Shafts and tunnels; refractory; steam; 20 stamps.
**	**	Grant Silver Mining Co., Portland, Ore., eur. Front S. St., Geo. W. Weidler, prest.; Thomas Gray, seey, and treas., J. C. Powers, mgr., and supt. Cap. stk, \$100,000. Intrinsic and others, gold and silver. Shafts and tunnel, refractory; steam.
	**	G. H. Gutridge & Co. G. H. Gutridge, prest.; Harry Mack, seey.; M. Thornburg, treas.; F. E. Thornburg, mgr. Cap. stk. \$5,000. Camp Mason, gold. Placer; water. A. J. Dickison, supt.
Grants Pass Ry. 692.	Josephine	T. J. & J. T. Clark, Cap. \$120,000. Quartz Boulder, gold. Placer, hydraulic, T. J. Clark, supt.
'	"	Rogue River Mining & Developing Co. J. T. Flynn, prest.; A. C. Taylor, seey, and supt.; Robert G. Smith, treas, Cap., 48, 500,000. Conductor and Gray Mule, gold. Tunnel and shafts, 1,000 tons; free and refractory; steam; 10 stamps.
Greenhorn P.O. Austi Ewen 776	. Grant n) Ry, Mc- (50 miles).	C. G. Nelson, Austin, Ore. Greenhorn, gold. Placer; water.
Harney. Ry, 776,	.Harney	Robert Drinkwater. Gold. Placer; water (developing).
Idol Ry.Harney	Harney 776 (130 m.).	Bruner & Gilham, Main st. Cap. \$1,500. Big Boulder, gold and silver. Shaft; free; hand.
**	**	Heath & Roberts, Harney City, Ore. E. A. Heath, prest.; John E. Roberts, seey, and treas.; D. A. Cawlfield, mgr, and supt. Cap. stk. \$30,000. General Heath, gold. Placer; hand.
4+	**	J. A., J. E. & J. H. Loggan, Cap. \$1,270, Gold. Placer (developing),
**	**	Ream, Black & Kitching, Portland, Ore., 159 Seventh st. C. R. Black, mgr. Clarvoint, gold and silver, Refractory. E. H. Ream, supt.
	**	Samuel Roach, Cap. \$4,000, Gold, Open pit, placer,
Jacksonville Ry, 692.	Jackson	Jacksonville Mining & Milling Co. Jeremiah Numan, prest.; Silas J. Day, seey.; Thomas J. Kenney, treas.; D. Cronemiller, mgr. Cap. stk. Sio.000. Jacksonville, gold. Tunnel; free and refractory; hand developing. Henry Klipple, supt.
Joseph Ry, Elgin 7		Royal Purple Mining Co. (T. J. Dean, prest, mgr, and supt.); T. M. Dean, seey.; J. F. Cutler, treas. Cap. stk. \$1,000,000. Royal Purple, sliver and copper. Tunnel; free and refractory; water; concentrator, crusher and furnace, 5 stamps.
La Grande Ry, 776.	Union	Chloride Mining & Milline Co., Portland, Ore., 33 Stark st., F. W. Paine, prest.; M. D. Wisdom, seey.; R. L. Durham, treas: J. K. Romig, mgr., Cap. stk., \$500,000. Chloride, gold and silver, Tunnel, 350 tons; free; water, J. J. Taylor, supt.
Leland Ry. 692.	Josephine	Alta Ditch Co., Grants Pass, Ore. L. C. Windom, prest.; J. W. Sherer, secy, and treas.; John A. Niday, ngr, and supt. Cap. stk. \$3,000. Gold. Placer.

GOLD AND SILVER (CONTINUED)	
Location of Mine, Railways, Water Routes and Shipping Point.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
LelandJosephine (Continued.)	L. N. Browning. Browning, gold. Placer.
Matheur Matheur Ry, Baker City.	Samuel & Hiram Colt. Cap. \$10,000. Tip Top, Humboldt and Autocrat, gold. Shaft, tunnel and slope 500 tons; free; steam; 2 stamps.
Prairie City Grant Ry, Baker City 776 667 miles).	W. E. Gillord. Present Need, gold and silver. Shatt and tunnel, 100 tons: free and refractory; steam.
**	Geo, E. Robinson & Co. Colorado, gold. Tunnel, 3,500 tons, retractory: steam; 5 stamps. Geo, E. Robinson, supt.
Riddles Douglas Ry, 692 (31; miles).	Canyonville Mining, Water & Manufacturing Co., Eugene, Ore. E. U. Smith, prest.; Hon. A. C. Woodcock, seey. Cap. 8tk, \$500,000. Canyonville, gold. Placer, hydraulic (developing).
44 (12 )	S. S. Catching, Cap. \$500, Gold, Placer,
**	John Hudson, Cap. 85,009. Gold. Open pd., water developing).
Rock Creek Baker P. O. and Ry. Baker City 776.	Robinson Mining Co., Geo, W. Robinson, prest.; D. W. U. Nelson, seey, and treas.; F. C. Smith, mgr, and supt. Cap. stR, 81,000,000. North star, gold. Tunnel, 400 tons, free and refractory; steam and water, mill.
Rye Valley Baker Ry, Weatherby 776 (15 miles).	Cartwright Bros, (lessees). Rye Valley, gold. Placer.
44 14	H. B. Frans. Silver Blue and Extension, gold and silver. Tunnels: free; hand and arrastre.
n 0	John Frisco, Bonanza, gold. Placer; hydraulic.
	C. T. Bradley Mining Co., Daggett, Ca'. C. M. Sanger, prest., A. T. Sanger, seey.; C. T. Bradley, treas Lap. 8tk, \$100,000, Sammit, gold and silver. Shaft, 10,009 tons, free, steam; lo stamps, W. J. Townley, supt.
	Sturgill Bros., Baker Cay, Oregon. Bonanza, gold. Shaft; refractory, horse,
Sardine Creek — Jackson (P. O. Rock Point) Ry. Gold Hill 692.	N. & C. Ritter.   Lucky Hill, gold.   Tunnel. free: horse and hand) arrastre.   N. Ritter, supt.
Spanish Gulch Grant (P. O. Calleb) Ry. The Dattes 776.	Mule Gulch Mining Co., W. W. Cowne, prest, and nogr., R. V. G'bbons, seey., W. B. Cowne, treas. Cap. stk. \$20,000. Mule Gulch, gold. Placer, hydraulie. E. Seville, supt.
Sparta Union Ry, Baker City 776.	E. H. Boyer, Walla Walla, Wash. Boyer's, gold. Placer, hydraul'e. Edward Whitney, supt.
*	Eastern Oregon Gold Mining Co., Detroit, Mich. Geo. W. Robinson, prest,: Geo. H. Lathrop, seey. and treas. Cap. 8tk, \$100,000. Little Archie, gold. Shart and tunnel, 200 tons; free; hand. F. C. Smith supt.
44	Jay Guy Lewis. Silver Queen and Livingston, gold. Shatts, funnels, 2,000 fons, free and refractory; horse
**	Oro Bell Mining & Milling Co., Chleago, Ill., 225 Dearborn st. W. W. Watson, prest,: Chas. N. Hale seev, and treas: F. A. Hetherington, mgr, and supt. Cap. stk, \$1,00,000. Oro Bell, Relle of Kansa and a others, gold. Shaft and lumel, free, steam tofff.
	Snowstorm Consolidated Gold Mining Co., Bedford, Ind. T. B. Thornton, prest.; E. B. Thornton, seegand treas.; J. E. Meacham, mgr. and supt. Cap. 8tk, \$56,000. Snowstorm, gold. Shaft and slope free; water: 10 stamps.
SterlingJackson P. O. and Ry. Jackson- ville 692.	Sterling Mining Co., Portland, Ore. Vincent Cook, prest., O. L. Cook, seey, and treas.; Henry E. Arkeny, ngr., and supt. Cap. stk., 840,000. Sterling, gold. Pacer; water.
Sumpter Baker Ry, Baker City 776.	Mary Agnes Consolidated Placer Mining Co. Cap. stk. \$8,000. Mary Agnes, gold. Placer; hydraulic A. Downie, supt.
Susanville Grant Ry, Heppner 776.	Sloan & Haskell, Gold, Placer, 1 glant, steam,
Waldo Josephine Ry, Grant's Pass 692,	Geo, Simmons & Z. Cameron, Geo, Simmons, agr., and supt. Simmons & Co., gold.
**	Wimer Bros, & Co., Oakland, Cal., 1963 Washington st. Waldo, gold. Deep, hydraulic.
Wolf Creek, doscphine Ry, 692 (4 miles).	William & Ruth Ruble, Cap. \$25,000. Ruble, gold. Open pit, deep; water, S. C. Ruble, supt. an hydrautle mine inspector.
Woodville Jackson Rv. 692.	Alex, Wilson. Gold. Placer, water.

### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE. KIND OF ORE, KIND OF MINE. ANNUAL OUTPUT IN TONS OF 200 POUNDS, KIND

OF POWER USER, BLAST FERNACES, ETC., AND NAME OF MINE SUPERINTEXBERT.

Town AND COUNTY.

Oswego, Ry, 692,

Clackamas Oregon 1 ron & Steel Co., Portland, Ore., 105 Third st. Theo, R. Wilcox, prest., J. Frank Watson, seey, and mgr.; Ladd & Tilton, treas. Cap. sdk, 81,50,000. Prosser and Dack Fond, brown hematite. Shaft and tunnel, 40,000 toos; steam. J. B. Pomeroy), supt.

### KAOLIN

Location of Mine or Bank, Railways, Water Routes, and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

COUNTY. Town AND

American Kaolin Co., Portland, Ore., 110 Second st. J. F. Edwards, prest.; Robert R. Tuttle, secy.; F. C. Brodie, treas.; James Sudweeks, mgr. Cap. stk. \$1,000,000. Kaolin (developing). Huntington . . . Baker (Mine in Malheur Co.) Ry, 776. Baker

### LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND

Pendleton..., Umatilla Golden Hill Mining & Milling Co., 113 Court st. Jacob Frazer, prest.; W. P. Lathrop, seey.; B. F. Renn, Ry, 776, treas.; James A. Howard, v-prest, and mgr. Cap. stk, 8750,000. Vulture, lead. Shaft and tunnel.

### MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Etna.... Ry, Gold Hill 792.

Town

Tows

Jackson H. Richardson. Mineral paint. Open pit.

### NICKEL.

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND Ry, 692 (4 miles).

COUNTY

COUNTY

Douglas Edson Adams & Harvey S. Brown, San Francisco, Cal., Fourth and Townsend sts. Oregon (developes).

International Nickel Mining Co., Chicago, Ill., Chamber of Commerce Bldg., cor. La Salle and Washington 88. James R. Ashley, prest.; Wm. H. Taylor, seey., treas, and mgr. Cap. sik, \$5,000,000. Riddles. Sbart, tunnel and open pit, 600 tons; steam. Will Q. Brown, supt.

### PRECIOUS STONES

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Hardman Morrow William A. Fisher. Peters, opals. Ry. Heppner 776

## STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Pol. 1.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OCTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY Town

Forest Grove Washington | Forest Grove Stone Co. | J. G. Boos, prest.; E. H. Heitzhausen, seey.; A. Vosper, treas.; J. Hausen, mgr. Ry, 692. | Cap. stk. \$50,000. | Forest Grove, blue sandstone. Open pit; steam (developing).

Baker Oregon Marble & Lime Co., Portland, Ore, T. F. Routke, prest, and mgr.; Charles F. Beebe, seey.; on (Ry. C. F. S. Wood, treas. Cap. 8tk, 894,000, Limestone, Open pit, 18,000 tons; hand; kilns, 10,000 tons. W. L. Peaks, supt. Lime Station (P.O. Huntington : Ry.

st. Helen Columbia Burke's Quarry, Portland, Ore., 7212 Morrison st. Burke's, basalt rock. 2,000 tons.

# PENNSYLVANIA

### COAL-ANTHRACITE

COAL-ANTHRACTE	
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TIWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, annual output in Tons of 2,001 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
71117 200	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227–8. Fourth st. A. A. McLeod, prest, and gen, mgr.,; Franklin P. Kaercher, seey.; W. A. Church, treas. Alaska. 48,161 tons; steam; breaker
Alden Station Luzerne	gen, ngg, pen, dankin t vith, supt.  Alden Coal Co. Richard Sharpe sr., pest.; George H. Myers, seey.; Richard Sharpe jr., treas. Cap.  stk. \$200,000. Alden. Tunnet and shaft, 300,000 lons; steam, breaker. K. M. Smith, supt.
Ry, 118.  Archbald Lackawanna	84k, \$200,000. Alden, Tunnel and shaft, 300,000 tons; steam, breaker, K. M. Smith, supt. Delaware & Hudson Canal Co., Seranton Fa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey.; C. A. Walker, treas: H. G. Voung, mgr. Cap. 8tk, \$90,000,000, White Oak, Stope and tunnels, 165,500 tons; steam and horse; breaker. Andrew Nicol, supt.
Ry, 213, 505.	umines, 15, 50 (10); steam and horse; breaker. Andrew Vieol, supt.  Riverside Coal Co., Seranton, Pa., Jas., J. Williams, prest; Thos. E. Jones, seev, and treas; John Reese, mgr. Cap. stk, \$20,000. Riverside. P5,000 (10)s, steam; breaker. Thos. J. Williams, supt.
Ashland Schnylkill	
	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Bast. 148,500 tons; steam; breaker and washer, John Veith, supt.
Ashley . Luzerne Ry, 118,	Lehigh & Wilkes Barre Coal Co., New York City, Central Bildg. J. R. Maxwell, prest.; W. T. Zell, seey, and treats; Elmer H. Lawall, supt. Jersey, No. 8. Slopes, 151,756 fons; steam; breaker. M. R. Mergans, supt.
Audenried Carbon Ry, 393, 578,	C. M. Dodson & Co., Bethlehem, Pa. C. M. Dodson, prest.; A. S. Schropp, seey, and treas.; E. L. Bullock, mgr. Cap. \$200,000. Beaver Brook. Slope, 200,000 tons; steam; breaker and washer. D. J. Thomas, supt.
**	Lehigh & Wilkes Barre Coal Co., New York City, 143 Liberty st. J. R. Maxwell, prest.; W. T. Zell, seey, and Ireas.; E. H. Lawall, mgr. Honey Brook. Slopes, 550,000 tons; Steam; breaker and washer. D. P. Roberts, supt.
Ayoca , Luzerne Ry, 213, 252, 393.	Avoca Coal Co., Ltd., C. C. Bowman, prest.; E. L. Bowman, seey, and treas.; W. H. Hollister, mgr. Cap., stk, \$20,000. Avoca. Shafts, slope and tunnel, 100,000 tons; steam; breaker. Solomon Deeble, supt.
46 5	Florence Coal Co., Ltd., Scranton, Pa., 322 Lackawanna av. W. B. Whitney, prest.; E. P. Kingsbury, seey.; Chas. P. Matthews, treas.; Austin Moore, ingr., and supt. Cap. stk. \$18,000. Elinwood. Shaft, 146,250 tons; steam; breaker.
***	Langeliffe Coaf Co., Scranton, Pa., Lackawanna ay, R. G. Brooks, prest., T. R. Brooks, seey.; J. A. Mears, treas. Langeliffe. Shaft and tunnel; steam, breaker.
Beaver Meadows Carbon Ry, 393,	William T, Carter & Co., Philadelphia, Pa., 302 Walnut st. Cap. \$400,000. Coleraine. Slopes, 120,000 tons; steam, breaker.
**	Coxe Bros. & Co., Drifton, Pa. Cross Creek Collieries. Tunnel, 192,000 tons, steam; coal breakers and washers. E. B. Coxe, supt.
**	Evans Mining Co. H. J. Boardman, prest.; Chas. Haigh, seey.; John D. Evans, treas., mgr. and supt. Cap. stk. \$150,000. Evans. Slope, 50,000 tons. steam, breaker, washer.
Berniee Sullivan Ry, 393,	State Line & Sullivan R, R. Co., Towanda, Pa. J. Raymond Claghord, prest.; O. A. Baldwin, seey, and treas.; I.O. Blight, ugr, and supt. Cap. 8tk, 81,060,000. Bernice. Tunnel, 150,000 tons; steam; breaker and washer.
Blackwood Schnylkill Ry, 570, 393,	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Win, C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. 855,000. Blackwood, 8,400 tons; steam; breaker.
Branch Dale - , Schuylkill Ry, 578.	Philadelphia & Reading Ceal & Iron Co., Philadelphia, Pa., 227-8, Fourth st., A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Otto, 113,300 tons; steam, breaker. R. C. Luther, sunt.
Brownsville Schnylkill (P. O. Lost Creek) Ry. 578.	Lehigh, Valley Coal, Co., Philadelphia, Pa., 228-8, Third st., Elisha P., Wilbur, prest.; J. R. Fanshawe, seey.; Win, C. Alderson, treas.; W. A. Lathrop, mgr., and supt. Cap. stk. 8656,000. Packer No. 3 Collegy, 13,000 tons. Steam; breaker.
Carbondale Lackawanna Ry, 213, 503 and 505.	Delaware & Hudson Canal Cu. Seranton, Pa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey; C. A. Walker, treas; H. G. Voting, ingr. Cap. 818, 850,00,000. Clution and Devolerly Stopes, Coal Brook, Wilson Creek and Rackert Brook tunnels, and Carbondale Nos. Unid 3 shafts, 620,000 tons; steam and horse, breakers. Andrew Nicol, supt.
** 46	Northwest Coal Co., Seranton, Pa. C. D. Sumpson, prest.; A. F. Law, seey.; T. H. Watkins, treas, Cap. stk, \$100,000. Northwest. Slope, 300,000 tons; steam; breaker, James L. Crawford, supt.
	Strond & Chamberlain, Belmont st, and Oak av. G. F. Chamberlain, mgr, and supt. Cap. stk. \$50,000, Ontario and Belmont. Slope and funnels, 68,000 tons; steam; breaker,
	Wm, P. Williams, 109 S. Church st. Cap. \$1,000. Tunnel, 40,000 tons; hand; breaker.
Centralia . Columbia Ry, 393,	secy.; Wm, C. Alderson, treas.; W. A. Lathrop, mgr, and supt. Cap, stk. 8650,000. Continental,
" " "	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227–8, Fourth st. A. A. MeLeod, prest, and gen, ingr.; F. V. Kaereher, seey.; W. A. Church, Ireas. North Ashland. 155,000 tons; steam; breaker and washer. John Veith, supt.
Coaldale Schnylkill Ry, 118.	Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 S. Third st. Joseph S. Harris, prest.; S. Shepherd, seey, and freas, W. D. Zehner, mgr. Cap. 8tk, Stl.358,650. Lehlgh, Nos. 8, 9, 10, 11 and 42, 766,269 tons; steam and horse; breaker. R. C. Luther, sup.
	Coxe Bros, & Co. Cross Creek. Shaft, 192,000 tons; steam; breakers and washers. E. B. Coxe, supt.
And American College W. Dr. and and	200 APRIL Clored St. Among Co. of countries Discourse N. Maries and W. M. Olinham and Among Annual A

Dickson City, Lackawanna Elk Hill Coal & Iron Co., Scranton, Va., 3425 N. Main av. Wm. H. Richmond, prest, treas, and mgr.; E. K. Richmond, seey. Cap. 8tk, \$50,000. Richmond No. 3. Shaft, 35,000 tons; steam; breaker. Patrick Richy, supt.

Town

Drifton Ry. 118, 393.

Dunmore

Eagle Hill

Duryea . . . . . Lt Ry, 200, 252, 393.

Edwardsville. Luzerne Ry, and P. O. Kingston

Excelsior, Northumberlind Ry, 578.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

COUNTY.

steam; breaker.

treas. Cap. stk, \$1,000,000 G. Willym Edwards, supt.

### COAL-ANTHRACITE (CONTINUED)

nmore "Lackawanna Murray & Co. M. J. Murray, prest, and supt.; Thomas Brown, seey.; John Carney, treas.; A. J. Murray, Ry. 252. hgr. Cap. stk. \$25,000. Murray's. Shaft, 25,000 tons: steam; breaker.

de Hill Schuylkill Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and By. and P.O. Pottsville mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Eagle Hill. 167,060 tons; steam; breaker, R. C. Lathler, synt.

Eckley .......Luzerne Coxe Bros. & Co., Drifton, Pa. Cross Creek Collieries. Slope, 192,000 tons; steam; breakers and washers. By .118, 303. E. B. Coxe, supt.

Luzerne Babylon Coal Co., Scrauton, Pa. T. H. Watkins, prest.; W. G. Parke, seey.; C. D. Simpson, treas. Cap. stk, \$200,000. Babylon. Shaft, 225,000 tons; steam; breaker. James L. Crawford, supt.

Luzerne Coxe Bros. & Co. Cross Creek. Shaft, 192,000 tons; steam. E. B. Coxe, supt.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

CDAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Old Forge Coal Co., Ltd., New York City, I Broadway. John A. Mears, prest, and mgr.; J. Alton Davis, seey.; C. S. Crane, treas. Cap. stk. \$30,000. Columbia and Phoenix. Shafts and tunnel, 300,000 tons;

The Kingston Coal Co., Kingston, Pa. Daniel Edwards, prest, and mgr.; Elliott R. Morgan, seey, and trens. Cap. stk, \$1,000,000. Kingston. Shafts, 500,000 tons; steam and compressed air; 2 breakers.

Excelsior Coal Co., Shamokin, Pa. A. Robertson, prest.; C. W. Kingsley, secy, and treas.; A. D. Robertson, mgr. and supt. Excelsior. Slopes and tunnels, 268,000 tons; steam and horse; breaker.

Ry, 578.	son, mgr, and supt. Excelsior. Slopes and tunnels, 268,000 tons; steam and horse; breaker.
Exeter	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Wm. C. Ablerson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Exeter. Shaft, 47,225 tons; steam; breaker.
·	Stevens Coal Co., Pittston, Pa. (West Side). Mito J. Wilson, prest.; C. W. Wesner, seey.; F. E. Stevens, treas.; A. B. Stevens, mgr. Cap. stk, \$200,000. Stevens. Slope; steam; breaker (developing).
dale 213, 502.	John Murrin. Fall Brook. Tunnel, 1,900 tons; steam; breaker.
Gilberton Schuylkill Ry, 563, 578.	Draper Colliery, Pottsville, Pa. H. L. Williams, gen. nigr. and snpt. Cap. \$500,000. Draper. Slopes and tunnels, 220,000 tons; steam; coal breaker and washer.
n n	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr; F. P. Kaercher, seey.; W. A. Church, treas. Gilberton. 255,600 tons; steam; breaker. John Vetth, supt.
** ***	Stoddart Coal Co., Chas, E. Breckons, prest.; Guy C. Irish, secy. and treas.; Wm. J. McCarthy, mgr. and supt. Cap. stk. \$25,000. Stoddart. 75,000 tons; steam; breaker and washer.
Girardville, Schuylkill Ry, 393, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, freas. Preston Nos. 2 and 3, Girard and Hammond. 296, 800 tons; steam; breakers. John Velth, supt.
Glen Carbon — "Schuylkill Ry, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Richardson. 13,500 Ions; steam; breaker. R. C. Luther, supt.
łowen Luzerne Ry, 563,	Coxe Bros, & Co., Drifton, Pa. Cross Creek. 192,000 tons; steam; coal breakers and washers. E. B. Coxe, supt.
Harwood Luzerne Ry, 578.	Pardee Sons & Co., Lattimer Mines, Pa. C. Pardee, mgr. Cap. \$500,000. Harwood. Slopes, 215,000 tons: steam; coal breaker and washer. A. W. Drake, supt.
Highland Luzerne (P. O. Jeddo) Ry. 393.	G. B. Markle & Co., Jeddo, Pa. Highland Nos. 1 and 2. Slopes, 200,000 tons; steam; coal breaker. John Markle, supt.
Hollywood Luzerne (P. O. Lattimer Mines) Ry. 578.	-Calvin Pardee & Co., Lattimer Mines, Pa. C. Pardoe, mgr. Cap. 8500,000. Hollywood. Slopes, 220,000 tons; steam; coal breaker and washer. A. W. Drake, supt.
Humboldt Luzerne (P.O.Hazelton)Ry, 393.	Linderman & Skeer, South Bethlehem, Pa. Cap. \$1,200,000. Humboldt Mine. Slope, 84,000 tons; steam and horse; breaker. Jas. E. Roderick, supt.
Ioulett Schuylkill rcy, and P. O. Pottsville 578, 393, 563, 570.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Good Spring. 54,000 tons; steam; breaker. B. C. Luther, supt.
	G. B. Markle & Co. Jeddo Nos. 3 and 4. Shafts, 299,200 tons; steam; coal breaker. John Markle, supt.
Jermyn Lackawauna Ry. 213, 505.	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, secy.; C. A. Walker, treas.; H. G. Young, mgr. Cap. sik. \$50,000,000, Jermyn No. I shaft. 198,300 tons; steam and horse; breaker. Andrew Nicol, supt.
**	Edgerton Coal Co., Ltd., Scranton, Pa. C. D. Simpson, prest.; T. H. Watkins, secy.; W. G. Parke, treas, Cap. stk. \$20,000. Edgerton. Tunnels, 250,000 tons; steam; coal breaker. Jas. L. Crawford, supt.
**	Westside Coal Co. S. D. Davis, prest, and mgr.; J. Alton Davis, secy. Cap. \$4,000. Sunshine. Tunnel, 10,000 tons; steam; breaker. John F. Nicholson, supt.
Kingston Luzerne Ry, 200,	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Win. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$650,000. Maltby. Shaft, 31,000 tons; steam; breaker.
Latlin Luzerne Ry, 213,	Annora Coal Co., Wilkes Barre, Pa. Charles Parrish, prest, and mgr.; Wm. C. Allen, seey.; Theo. F. Rynam, treas. Cap. stk. \$500,000. Annora. Slopes and tunnels, 165,000 tons; steam; breaker. John N. Conyngham, supl.
Lansford Carbon Ry, 118,	Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 8. Third st. Jos. S. Harris, prest.; S. Shepherd, seey, and treas; W. D. Zehner, mgr. and supt. Cap. stk. \$14,358,650 Collieries, Nos. 4, 5 and 6, 240,406 tons; steam and horse; breaker.
Lattimer Mines. Luzerne Ry, Milnesville 398.	Pardee Bros, & Co., C. Pardee, mgr. Cap. \$500,000. Lattimer. Slopes, 215,000 tons; steam; breaker and washer. A. W. Drake, supt.

## GOLD AND SILVER-(CENTINUED)

LOCATION OF MINE, RAILWATS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNAL OUTFUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STRAM MILLS, ETC., AND NAME OF MINE SUFFRINTEMENT.
TOWN AND COUNTY.	Of TOWER COED, GIRLF MILLS, LIC., AND NAME OF MINE SCIENTIFICENT.
PiedmontGrant (P. O. Carlisle) Ry, Duncan, Ariz., 19 (14 mlles),	Stiple Rock Mining Co., Silver City, N. Mex. Chas. Davenport, prest.; P. P. Barnes, seey.; J. E. Hussey, treas.; W. C. Davenport, mgr. and supt. Cap. stk. \$20,000. Jim Crow, gold and silver. Shafts and lumnels; refractory; steam, 5 stamps.
Pinos Altos . Grant Ry, Silver City 26(8 nc.).	Bell & Stephens, N. Bell, mgr. and supt. Pacific, Extension, Ohio and Kept Woman, gold. Shafts and tunnels, 2,500 tons; refractory; steam; 15 stamps.
**	Christman & Robinson Bros. Cap. \$1,500. Little Pacific, gold, silver and lead. Shaft, 300 tons: free and refractory.
	Consolidated Nebraska Mining Co., Beatrice, Neb. D. A. Walden, prest., E. C. Sallsbury, seey.; A. Bradtt, treas. B. W. Davis, mgr. and supt. Cap. stk, \$3,000,000. Gold, silver and lead. Shaff, 1900 tons, refractory; steam; 5 stamps.
••	Dimmick Bros. Cap. \$10,000. Silver Cell, silver. Shaft and tunnel; horse. C. A. Dimmick, supt.
34 46	Hersberger, Everts, Osborn & Spils. Eastern, Western, Eldorado and Oro Fino, gold, silver and lead. Shafts and tunnels, 1,000 tons, free and refractory; horse.
	Houston & Thomas, El Dorado and Prospectus, gold. Shaft and open pit, 21 tons; refractory, hand,
	Manhattan Gold Mining & Milling Co., St. Louis, Mo., Laelede Bldg. Hon, Nathan Frank, prest.; A. C. Einstein, v-prest., seey., ingr. and supt., Julius Rollischild, treas. Cap. stk. \$350,00. Aztec, Asiatic and 9 others, gold and silver. Shafts and tumnels, 11,000 tons; free; steam, 20 stampt.
	Wm, Skillicon & L. A. Snyder, L. A. Snyder, mgr, and supt. Pacific No. 2, gold and silver. Shaft, horse; 5 stamps.
Pyramid Grant Ry, 692 (9 miles).	Pyranid Sliver Mining Co., Rochester, N. V., Wilder Bildg, T. J. Reynolds, prest.; G. C. Buell, vprest., J. W. Moore, seey, and treas. Cap. stk. \$1,000,000. Viola and others, silver. Shaft, 5,000 fons; refractory; steam; 20 stamps. J. W. Hamilton, supt.
Questa Taos Ry.Antonlto,Colo.,215.	Red River Mining Co. Henry J., Young, prest, and mgr.; Wm. W. Young, seey.; E. S. Redding, treas. Red River, gold and copper. [Tunnel: steam and hand (developing).
Read River Taos (P.O.Questa) Ry, An- tonito 215,	G. W. Payne. Georgia, gold, silver and copper. Shaft; hand,
San Antonio Taos (P.O.Arroyo Seco) Ry. Tres Piedras 215.	Rio Hondo Mining Co., Louisville, Ky. Cap. 8tk. \$1,000,000. Keystone and others, gold. Placer (developing). Lorin W. Brown, supt.
Sandia City . Bernalillo P. O. and Ry. Albu- querque 26.	Sandla Mining & Smelting Co. John S. Tompson, prest., Theodore Honegger, seey, and treas,; A Schwarzenbach, mgr. Cap. stk. \$500,000. Sandia, gold, Silver, copper and lead. Alex, Rodgers, supt.
San Marcial Socorro Ry, 26.	John W. Crawford, J. W. Crawford, prest., seey, and Treas., James Carlin, mgr. Cap. stk. \$12,000. Jim Carlin, silver and lead. Shaft and funnel, hand (developing).
	Rosedale Mining Co. Great London and Rothschild, gold. Shafts; 3 stamps developing).
San Pedro. Santa Fe Ry, Cerrillos 26 46 m	Galena Hill Mining Co. Alexander Rogers, prest.; James Cheres, seey, and supt., L. Skinner, treas., Alex. Rogers, mgr. Cap. 8tk, \$500,000. Six mines, gold. 5,000 tons; horse.
**	Lincoln Lucky Mining Co., R. V. Anderson, mgr, and supt. Lincoln and Lucky, gold, silver and lead shaft and tunnel, 10,000 tons; steam,
** **	Silver Belt Mining Co., Albuquerque, P. O. Box 133, T. L. Tremayne, prest.; Alex, Stevens, secy.; J. L. Andrews, trens.; A. Blehards, mgr. Cap. 8tk, \$200,000. Silver Belt, Lucky No. 2 and Homestake, gold and lead. Shaft developing.
Socorro Ry. 26.	<ol> <li>T. Brown, Magdalena Queen and Mountain Key, silver, lead and iron. Shaft and funnel, 200 tons, free, hand.</li> </ol>
**	R. E. Leeson. Saint Vicente, silver and lead. Shart and drifts, 200 tons; refractory; horse. A. J. Leeson, supt.
	[Merritt Mining & Milling Co. R. B. Langdon, presta; W. J. Halin, seey.; A. H. Linton, treas., A. D. Coon, mgr. Cap. stk, \$150,000. Merritt, gold and silver. Tunnel, free, steam, 10 stamps (developing).
**	Geo, H. Thwaite. Box 98. Picolite, silver. Shaft, tunnel and drift; free and refractory; horse,
Steins Pass	Beek Mining Co. W. K. Meade, mgr, and supt. Cap. stk. \$50,000. Beek, gold and silver. Open pit, deep. 300 tons, refractory, steam.
" "	P. B. Smith. Cap. \$20,000. Volcano, gold and silver. Shaft, 100 tons; free; horse and steam,
	Chas, W. Thomas & Cozle, Cap. 86,000. Pa. Ch. La. Kh., silver. Shafts, 2,000 tons, free; hand,
Taos	Chas, H. Berry & Co. Rio Grande, gold. Placer, free; water.
	$\label{eq:convergence} Kenny Bros. Johnson & Sly. \ Log Cabin, gold and silver. \ Shafts and tunnels; free; hand oleveloping_1.$
White Oaks Lincoln Ry.Carthage 26 (80 m.).	Lady Godiva Mining Co.* Lady Godiva, gold. Shaft, 350 tons; free; steam. B. H. Nye, supt.
	North Homestake Mining Co., Perris, Cal. James M. Sigafus, prest.: J. Everett Bird, seey., treas, and mgr. Cap. stk. \$100,000. North Homestake, gold. Shaft, deep. 12,000 tons. free, steam, 40 stamps. Frank R. Lloyd, sup.
	Old Abe Mining Co., John V. Hewitt, prest., Frank J. Sager, Seey, and treas. Cap. 8tk, \$1,200,000. Old Abe, gold. Shaft, 14,400 tons; free; steam; 20 stamps.

White Oaks Mining Co., St. Louis, Mo., 560 Olave st. Rolla Wells, prest., F. B. Vork, seey, and treas., L. W. Farker, ingr. Cap. stk, \$200,000. Homestake, gold. Shafts and drafts, 5,000 tons; free; steam, 20 stamps. Joseph Grashaber, supp.

## IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS. CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST PURSACES, ECC., AND NAME OF MINE SUPERINCESUPERS.
TOWN AND COUNTY.	
Hanover Grant Ry, 26,	Southwestern Coal & Iron Co., Colorado Springs, Colo., Bank Bldg. C. L. Perkins, prest.; T. G. Condon, vprest, and mgr.; R. P. Perkins, seey, and treas. Cap. stk. \$1,000,000. Open pit, 30,000 tons; hand.
Santa Rita Grant Ry, 26,	Santa Rita Copper & Fron Co. J. P. Whitney, prest.; Wni. J. Downing, seey, and treas.; Franklin Mahon, agr. and snpt. Voltaire, Garfield, Booth and Nugent, hematite and magnetic. Shafts and open pits, 2,500 tons; steam, horse and hand.
Silver City Grant Ry, 26.	William H, Newcomb, Cap. \$50,000. Union, Hartburn, Iron Head, Mikado and Adonis, magnetic and hematite. 30,000 tons; horse and hand.
White Oaks Lincoln Ry, Carthage 26,	Zicarilla Iron Mining Co., East Las Vegas, N. M. Cap. stk, \$100,000, Zicarilla, hematite, Shaft.

## LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
Cooks Grant Ry, Florida 26,	Peter Sprey. Minnesota, Wisconsin and others, lead. Tunnel; refractory.
Hanover Grant Ry, 26,	Mineral Paint Zinc Co., Chicago, Ill., 1206 Ashland Block. D. B. Jones, prest.; W. A. Jones, secy, and treas. Thunderbolt and Zinc Valley, zinc. Open pit; hand,
Kelly Socorro Ry, 26,	Graphic Mining Co. Graphic, lead. Shafts and tunnels, 12,000 tons; steam. W. H. Patterson, supt.
Las Cruces Dona Ana Ry, 26.	Lawrence Lapoint. Alice A. R. Neil, lead. Shaft.
Organ Dona Ana Ry, Las Cruces 26,	A. J. De Meules. Cap. \$5,000. Galena King, lead. Tunnel; hand.
** ***	Gibbs & Edson. W. B. Gibbs, mgr. and supt. Cap. \$5,000. Comstock, lead. Shaft, 200 tons; refractory; horse.
Pinos Altos Grant Ry, Silver City 26,	J. H. Houston & W. B. Thomas. Alpha and Omega, lead. Shafts; tunnels and slopes, 1,200 tons.

MICA	
Location of Mine, Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.
Tres Piedras Taos Ry, 215.	George B, Berry, California, Highland, Little Giant, mica. Shafts and tunnels; hand.

### STONE MARRIE GRANITE AND ONYX

STONE, MARBLE, GRANTE AND ONTA	
Location of Mine OR QUARRY, Rallways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNOLL OUTFUT IN TONS OF 2,000 POUNDS, KIDO OF POWER USER, STONE OR MARBLE MILLS, LIMERLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Hillsboro Sierra Ry, Lake Valley 26,	Owen McDonald & Arend. Statue. Marble (developing).
Silver City Grant Ry, 26.	G. Armeny & J. Wollsten, New York City, 30 Nassanst. G. Armeny, mgr. Ajax, stone. Slope; hand and horse. J. Wollsten, supt.
. "	Mexican Marble & Onyx Co., Chicago, Ill., 59 Dearborn st. W. J. Patchell, prest.; D. F. Morris, secy.; A. Il, Doellner, treas.; T. E. Hinds, mgr. Cap. stk, \$500,000. Cadwell, marble and onyx. Open pit;

SEE ALSO SUPPLEMENTARY LIST

# NEW YORK

### ASBESTOS

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Town AND COUNTY. Ry. Gouverneur 638.

Asbestos Pulp Co., Rochester, N. Y., German Insurance Bldg. A. L. McCrea jr., mgr. Cap. stk. \$300,000, Asbestos, fibrous tale. 46,000 tons; water. Edwards St. Lawrence

### CEMENT

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, CEMENT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

De Witt . Ry, 501.

Onondaga John Sheedy & Son. Cap. \$20,000. Cement, limestone. Open pit, 7,000 tons; cement mill, 6,000 tons; lime-kiln, 5,000 tons.

Favetteville.

Onondaga Bangs & Gaynor, Cement and plaster rock. Open pit, 12,000 tons; steam; eement mill, 600 tons; plaster mill, 7,000 tons, W. F. Gaynor, supf.

#### CORUNDUM

LOCATION OF MINE OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Courtland ...Westchester P. O. and Ry. Peeks-kill 315, 501.

Emery Co. A. G. Smelair, prest, and mgr.; T. H. Dugan, seey. Cap. stk. \$100,000. Peekskill, Open pit, 350 tons; hand; steam; mllf. A. G. Smelair, supt.

### GRAPHITE

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Graphite Warren Ry, Ticonderoga 120, 213,

Warren doseph Dixon Crucible Co., dersey City, N. J., cor, Wayne and Monmouth sts. E. F. C. Young, prest, George E. Long, seey.; John A. Walker, v-prest, treas, and mgr. Cap. stk. 8734,500. American graphite. Open pit. 800 tons; steam. George Hooper, supt.

### GYPSUM

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

, Onondaga Kenna & Allen (local). Gypsum. Open pit, 100 tons; water; mill.

Ry. 501. De Witt On Ry, Orville 250,

Onondaga W. W. Candell, Fayetteville, N. Y. Cap. \$5,000. Gypsum. Open pit, t0,000 tons; hand,

Robert Dunlap & Co. Cap. \$20,000. Jamesville, gypšum, cement. Open pit, 5,000 tons; water; cement mill, capacity 15,000 tons; gypsum mill, capacity 7,500 tons.

Wm. C. Hurd, Gypsum Bed, gypsum rock, F. M. Severance, mgr

Lenox Madison Irving Tuttle, Cap. 85,000, Open pit, 500 tons; water, Cap. Wampswifte 798, 250.

Mantius . Ry, 798 Onondaga James Behan. Cap. \$5,000. Gypsum, cement. Open pit, 30,000 tons; steam; cement mill, kiln, 12,000

Oakfield. . Genesee Olmsted & Stonas, Cap. \$10,000. Gypsum. 2,000 tons; steam.

Madison R. D. Button, Plaster stone, 4,000 tons; mill, Ry, Cottons 247.

Wheatland . . .Monroe J. W. Garbutt. Garbutt, gypsum. Shaft, 8,000 tons; water; mill, (P. O. Garbutt | Ry. 85.

### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF DRE, KIND OF MINE, ANNIAL OUTPUT IN TORS OF 2,000 POODRS, KIND OF POWER USED, BLASE FURNACES, ETC., AND NAME OF MINE SUPERINFERDENT.
TOWN AND COUNTY.	
Amenia Dutchess Ry, 501.	Amenia Mining Co., New York City, 58 Williams st. F. Kingsbury Curtis, prest.; A. M. Card, seey.; J. J. Morehouse, treas. Cap. stk. \$150,000. Amenia, brown hematite. Open pit, 20,000 tons; steam.
Antwerp Jefferson Ry, 638,	Jefferson Iron Co. E. B. Bulkley, prest, and mgr.; F. S. Salisbury, seey.; C. E. Bulkley; treas. Cap. stk. \$250,000. Old Sterling, hemalite. Shaft and slope, 75,000 tons.
Beekman Dutchess Ry, 493.	A. E. Tower & Bro., Poughkeepsie, N. Y. Hematite. 43,000 tons; steam. J. P. Cramp, supt.
Black Brook Clinton Ry, Au Sable 213.	Peru Steel Ore Co., Ltd., Clintonville, N. Y. Geo, H. Cleaves, prest.; Charles M. Hopkins, secy, and treas. Cap. stk. \$31,000. Palmer and Winter, iron ore. Slope; steam; bloomary forge.
** ************************************	J. & J. Rogers Iron Co., Au Sable Forks, N. V. H. W. Stetson, prest.; James Rogers, secy. Cap, stk. \$200,000. Palmer, magnetic. Slope; steam. Wm. Hopkins, supt.
Crown Point Essex Ry, 196, 213.	Crown Point Iron Co. Chester Griswold, prest.; H. M. Olmsted, secy. and treas.; A. L. Inman, mgr. Cap. stk. \$1,500,000. Crown Point, bessemer. Shafts and slopes, 55,000 tons; steam. Thos. Montagne, supt.
Dannemora Clinton Ry, 124.	Chateaugay Ore & Iron Co., Plattsburg, N. V., 3a Clinton st. Smith M. Weed, prest.; A. L. Imman, seey, and mgr.; H. M. Ohnsted, treas. Cap. stk, \$1,500,000. Chateaugay, bessenier, magnetic. Shaffs, 300,000 tons; steam; furnace. A. McDonald, supt.
East Fishkill, "Dutchess Ry, Sylvan Lake 493.	A. E. Tower & Bro., Poughkeepsie, N. Y. Brown hematile. 12,000 tons; steam. J. P. Cramp, supt.
Fort Montgomery, Orange Ry, 798.	Forest of Dean Iron Orc Co., Poughkeepsie, N. Y., foot of Hoffman st. Jos, T. Tower, prest.; H. N. Bronshade, seey.; A. E. Tower, treas, and Ingr. Cap. stk. \$400,000. Forest of Dean, magnetic. Slope, 20.000 tons; water. Fearce Clonan, supt.
Gouverneur, St. Lawrence Ry: 638.	Gouverneur Iron Ore Co. 8, H. Beach, prest.; John Webber, secy, and mgr.; Wm. R. Dodge, treas. Cap. stk. \$200,000. Kearny, hematite. Shaft, 30,000 tons; steam. John Salmon, supt.
Harrisville Lewis Ry, 109.	Specular Iron Mining Co., Syracuse, N. Y., White-Merril Bldg., Clarence Tucker, prest, and uigr.: E. N. Westcott, secy.; Charles A. Tucker, treas. Cap. stk. \$240,000. Specular, bessemer. Shaft; steam.
Moriah Essex Ry, Port Henry 213.	Essex Iron, Co., New York, N. Y., 45 Cedar st. G. Lindenthal, prest.; O. H. Cutler, seey.; James M. Lewis, treas.; Wm. H. Searles, mgr. Cap. stk, \$25,000. Essex, bessemer, magnetite. Slope, 15,000 tons; steam. Wm. H. Searles, supt.
46	Port Henry Iron Ore Co., Poughkeepsle, N. V., foot of Hoffman st. J. Townsend Burden, prest.; Frank S. Witherbee, secy.; A. Edward Tower, treas, and mgr. Cap. stk. \$200,000. "21," Fisher, magnetic, Shafts, slopes and open pit, 100,394 fons; steam. George G. Roe, supt.
	Witherbee, Sherman & Co., Port Henry, N. V. New Bed, "O. B.," 21 mines, bessemer, magnetic. Shaft, tunnel, slope, open pit, 400,000 tons; steam, electricity; 3 furnaces. W. H. Teft, supt.
North Salem Westchester Ry, Purdy's Sta. 501.	Clover Hill Mine & Concentrating Works, Pittsburg, Pa., Bank of Commerce Bldg. Clover Hill, magnetic. Open, 60,000 tons; steam. Wm. D. Hoffman, supt.
Rossie St. Lawrence Ry. Hammond 638.	Rossie Iron Works, New York, N. Y., Room 84 Drewel Bldg, Anthony J. Thomas, prest.; J. P. Curtis, seey, and treas.; Gregory P. Harte, mgr. Cap. 8tk, 8300,000. Keene, Caledonia, Kearny, red hematite, Shaft, Shope, 40,000 robis; steam.
Warwick Orange Ry, 394.	Sterling Iron & Railway Co., New York, N. Y., 43 Wall st. M. Cove, prest.: Peter C. Barlow, secy.; D. Crawford Clark, treas; Chas. R. Westbrook, gen. mgr. and supt. Cap. stk. \$1,250,000. Sterling, Scott, iron ore. Shaft, Slame, 65,000 tolks; steam.

### MICA

	<u> </u>
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 FOUNDS, KIND OF POWER USER, ETC., AND NAME OF MINE SUPERINTANDENT.
TOWN AND COUNTY.	

Wilmurt . Herkimer 1saac J. Griffith, Utica, N. Y. 57 Arcade, Tunnel; hand (developing), Ry. Prospect 638.

### MINERAL PAINT

LOCATION OF MINE,
RAILWAYS, WATER RIOUTES
AND SHIPPING POINT.

TOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND
OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUFERINTENDENT.

Cambridge ... Rensselaer William Connors, Troy, N. Y., 677 River st. American Seal, mineral paint. Open pit, 2,000 tons; water. P. O. and Ry, Eagle Bridge 213, 261.

Oneonta . . . . . Otsego Oneonta Mineral Paint Works, New York City, Tribune Bldg. Oneonta, Indian ocher. Steam; mill. Ry, 213.

### $\approx$ ALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Product, Kind of Mine or Well, annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Etc., and Name of Mine Suferintendent.
TOWN AND COUNTY	
Belle Isle Onondaga Ry, 501, 737, 798.	James M. Gere. Wells, 15,000 brls.; steam, horse, hand.
Castile Wyoming Ry, 503.	Mrs, R. F. Edmundson, Silver Springs, N. Y. J. M. Duncan, receiver. Wells, 90,000 brls.; steam,
Cuylerville Livingston Ry, 805,	Phomix Dairy Salt Co., Mount Morris, N. V. Benjamin Roberts, prest.; W. W. Morehouse, seey.; E. J. Almer, treas., mgr. and supt. Cap. stk. \$30,000. Phomix, common, fine, dairy. Wells, 50,000 bris.; steam.
Gainsville Wyoming Ry, 85,	Dunean Salt Co., Silver Springs, N. V. J. M. Dunean, prest, and mgr.; S. G. Whiton, seey, and treas Cap. 8tk, \$150,000. Dairy, common, fine. 6 wells, 300,000 brls.; steam
Lakeville. Livingston Ry, 503,	National Salt & Chemical Co. F. B. Thurber, prest.; L. P. West, seey.; Charles F. Burger, treas, and mgr. Cap. stk. \$500,000. Conesus, common, fine. 3 wells, 300,000 brls.; steam. L. P. West, supt.
Leleester Livingston (P.O. Moscow) Ry, 200.	Lackawanna Salt Co. J. S. Tower, mgr. Cap. stk. \$60,000. Lackawanna, rock, common, fine. 2 wells 65,000 bris.; steam. A. W. Wellis, supt.
Le Roy Genesce Ry, 85, 501, 503,	Le Roy Salt Co. C. F. Pentiee, prest.; C. U. Keeney, seey.; A. E. Miller, treas., mgr. and supt. Cap. s(k \$100,000. Dairy, common, fine. 3 wells, 180,000 brls.; steam.
Liverpool Onondaga Ry, 638.	J. & P. Smith, Cap. \$75,000. Fine. Wells, 50,000 brls.; steam.
Mount Morris Livingston Ry, 209, 503, 805.	Royal Salt Co. John A. Young, prest.; John M. Prophel, seey, and treas.; J. C. Winters, mgr. Cap. stk \$100,000. Royal, salt, dairy, line, coarse. Wells, 20,000 tons; steam.
Onondaga , Onondaga Ry, Syracuse, 209, 501, 638,	R. Mara, Syracuse, N. Y., 26 Lynch Block. Salt, thre, coarse. Evaporation, 2,000 tons.
Pearl Creek	Pearl Salt Co. George C. Otis, prest., J. C. Buxton, seey, and treas, Cap. 8tk. \$40,000. Pearl, dairy common fine. Wells, 140,000 brls., steam.
Perry . Wyoming Ry, 673.	Perry Saft Co. F. H. Wyckoff, prest.; W. S. Page, seey, and treas., W. C. Patterson, mgr. Cap. stk, \$80, 000. Perry, common, fine. Wells, 150,000 brls.; steam, water. T. H. Donnelly, supf.
Sallna Onondaga (P. O. Liverpool) Ry. 638,	Philip Corkings, Syraeuse, N. V., C'inton Block, Thomas Gale, prest.; Lewis Hawley, seey.; Thomas Malloy, treas. Onondaga, coarse. Wells; steam, P. J. Brumelkamp, supt.
	Luclus Gleason, Liverpool, N. V. (ap. \$100,000. Fine. Wells, 45,000 tons) steam.
Salt Vale Wyoming Ry, 85.	Crystal Salt Co., Haverstraw, N. Y. Geo, H. Smith, prest., C. T. Bartlett, seey, and mgr.; J. M. Hedges treas. Cap. stk. \$500,000. Crystal, table, dairy. Wells, 350,000 brls., steam.
Syraeuse , timondaga Ry, 209, 501, 638, 798.	H. H. Freeman, 204 Wolf st. Cap. \$50,000. Common, fine. Wells, 14,000 tons; steam, P. J. Brumelkamp supt.
**	M. R. Hayes, 2508 Lodi st. Cap. \$20,000. Common, fine. Wells, 36,000 brls.; steam.
4	Western Coarse Salt Co., 9 Clinton Block, S. L. Comstock, prest, and mgr.; George F. Comstock jr. scey.; George F. Comstock, treas, Cap. stk, \$125,000. Coarse. Wells, 40,000 brls.; steam and water
Warsaw Wyoming Ry, 85, 503.	Atlantic Salt Co., New York, N. Y., 107 Hudson st. J. A. Cook, prest, and mgr.; B. C. Maey, seey, and treas. Cap, 8tk, \$50,000. Standard, dairy, fable. Wells, 150,000 brls.; steam.
44	Gouinlock & Humphrey, Cap. \$100,000. Dairy, fine, common. Wells, 130,000 brls.; steam.
" "	Miller Salt Co. E. A. Miller, prest.; F. E. Norton, seey.; R. D. Miller, treas, and mgr. Cap. stk. \$175,000 Miller, common, flue, dairy. 2 wells, 150,000 brls.; steam. William Sutchife, supt.
York . Livingston Ry, 805.	Livingston Salt Co., Ltd., Piffard, N. V. Charles F. Wadsworth, prest.: Thomas O'Mera, seey., treas, and mgr. Cap. 8tk. \$50,000. Livingston, common, fine, rock. Wells, (20,000 brls.) steam.
. "	York Salt Co. Nell Stewart, prest.; Alex. Reid, seey., James Bouday, treas, and mgr. Cap. 8tk, \$50,000 Course. Well, 55,000 brls.

SLATE	
	1717.X 1 17
Location of Quarry, Railways, Water Routes and Shipping Point. Town and County.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE. KIND OF QUARRY, ANNUAL OUTFUT IN TORS OF 2,00 FOUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
Granville Washington Ry. 213.	Martin Mellenry. Bates & Allen, red slate. Open pit, 1,200 tons; horse,
	Mettowee Red Slate Co. Wm, H. Kirtland, prest.; Hugh Williams, seey., treas, and mgr. Mettowee, red slate. Open pit; horse, steam,
" "	New Boston Red Slate Co. E. Richardson, prest.; O. H. Hughes, seey.; Evan W. Davies, treas., A. S. Hughes, mgr. New Boston. Open pt. 21,500 tons; steam, horse.
Middle Granvifle Ry, 213. Washington	Williams & Griffiths, Granville, Y. V. Cap. \$4,000. Red slate. Open pit, 100 tons; horse. Joseph W. Williams, supt.
Salem Washington Ry, 213.	Morey & Kays. Cap. \$30,000. Morey, red slate. Open pit; steam.
	John M. Williams. Valley View. Open pit, 500 tons; horse, steam. John H. Owens, supt.

Location of Mine or Bank, Railways, Water Routes, and Shipping Point.

Ry. Holley 501.

70, 367, 501.

Hulburton...

Ellenville.

Edwards ...

COUNTY

St. Lawrence Ry, Gouverneur 638.

#### SLATE (CONTINUED)

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
	Cornelius Snyder, Cap. \$15,000. Sand Lake. Open pit, 450 tons; water; paint mill.
Troy Rensselaer Ry, 315, 501.	F. Thomas, 92 Fourth st. Slate rock. Open pit, 1,000 tons; water; mill.
Whitehall Washington Ry, 213,	Hatch Hill Red Slate Works. Red and olive slate. Paint mill.

### SOAPSTONE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Adirondack Pulp Co. R. H. Thurman, prest.; W. V. Baker, seey.; John A. Manning, treas. Cap. stk. \$375,000. Adirondack, tale. Shaft, drift, slope, 10,000 tons; steam. Charles A. Millet, supt.

Agalite Fibre Co., New York City, P. O. Box 781, Freeman, fibrous tale, Shaft, 8,000 tons; steam.

	Henry Johnson, supt,
**	Fred H. Haile. Col. Palmer, tale. Shaft, 8,000 tons; water. Alfred Treglown, supt.
Fowler St. Lawrence Ry. Gouverneur 638.	Gardner Pulp Co. Wm. Woodcock, tale. Shatt, 6,000 tons; steam.
** **	Northern New York Manufacturing Co. Donald McNaughton, prest.; M. D. Packard, seey, and treas.; J. McNaughton, mgr. Caps. 8tk. \$200,060. Wight, tale. Shaff, 4,960 tons; horse; mill, capacity 4,960 tons. J. McNaughton, supt.
Gouverneur.St. Lawrence Ry, 638.	Asbestos Pulp Co., Rochester, N. V., 65 German Insurance Bidg. A. 8. Bigelow, prest.; A. H. Green, seey, and treas.; A. L. McCrea Jr., ingr. Cap. 8tk, \$30,000. Palmer, fibrous tale. Shaft, 30,000 tons; water.
Hailesboro, .St. Lawrence Ry. Gouverneur 638.	Ashestos Pulp Co., Rochester, N. Y., German Insurance Bidg. Albert S. Bigelow, prest; Arthur H. Green, seey, and treas; A. L. McCrea jr., mgr. Cap. 8tk. \$300,000. Palmer, Freeman, tale, Shaft, slope; water, A. L. McCrea jr., supt.
ST	ONE, MARBLE, GRANITE AND ONYX
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.  TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF FOWER USED, STONE OR MARDLE MILLS, LIMEBILINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
	Albion Stone Co., H.M. Claffin, prest.; W. B. Page, secy. Cap. stk. \$50,000. Albion, sandstone. Open pit; steam. Thos. Halifax, supt.
**	Goodrich & Clark Stone Co. D. L. Goodrich, mgr. Sandstone. Open pit, 20,000 tons; hand and steam.
**	Rochester Medina Stone Co., Rochester, N. Y., Ellwanger & Barry Bldg. Wm. F. Ross, prest, and mgr.;

T. A. Smythe, treas. Cap. stk. \$15,000. Medina sandstone. Open pit; steam; hand.

Orleans Michael Slack, Medina, N. V., 27 Main st. Cap. \$50,000. Slack's, sandstone. Open pit, 12,000 tons; steam and hand; mill. James Burns, supt.

ter Granite Co., New York, N. V., 25 Whitehall st. Charles Galwey, prest.; Peter Balen, v.-prest.; Thomas M. Bissette, secy.; Afred W. Lewis, treas. Cap. stk. \$1,000,000. Granite. Steam; hand. Ulster Ulster Granite Co., Fordham New York (P.O.N.Y.City) Ry, 501

New York, Carpenter Bros., Port Chester, N. Y. Cap. \$100,000. Ballast, gneiss. Open pit, 75,000 tons; steam.

noa . . . Cayuga J. G. Barger, Cap. \$5,000. Barger's, bluestone. Open pit, 2,000 tons; steam. Ry, King's Ferry 393. Genoa

Empire State Marble Co., John R. Wood, prest, and treas.; Gilbert Mallison, seey.; John W. Tracy, mgr. and supt. Cap. stk. \$75,000. Empire State, marble. Open pit; steam; mill. Gouverneur St. Lawrence

Gouverneur Marble Co., S. B. Van Duzee, prest.; G. P. Ormiston, seey.; Lewis Eckmann, treas.; D. J. Whitney, mgr., and supt. Cap. stk. \$75,000. Gouverneur, marble. Open pit, 6,000 tons; steam; mill.

St. Lawrence Marble Co. John Benham, prest, and treas.; H. D. Fuller, secy.; T. J. Whitney, mgr. and supt. Cap. stk. \$150,000. St. Lawrence, marble, 20,000 tons; steam; mill.

Granby . . . . Oswego P. O. and Ry. Oswego Falls 209. Oswego Granby Brown Stone Co., Oswego, N. Y. O. J. Jennings, secy. and mgr. Cap. stk. \$20,000. Granby, Oswego sandstone. 6,000 tons; steam.

Greenport...., Columbia Fred, W. Jones, Jonesburg, N. Y. Hudson, limestone, 60,000 tons; hand and steam; mill. Wm. Young, (P. O. Jonesburg) Ry. supt.

Hindsburg......Orleans Chadwick Bros. Albion, N. Y. Cap. \$15,000. Sandstone. Open pit, 3,000 tons; steam and horse, Ry. 250.

"Orleans Edward Fancher, Murray, N. Y. Cap. \$10,000, Medina stone. Open pit, 6,000 tons; steam, electricity.

Minerya...... 1256 Ry, North Creek 213, Essex Adirondack Garnet Co. Everett J. Stevens, prest.; Minot Crehore, seey.; Harry Crehore, treas, and ugr., 213. (Cap. stk. \$5.0). Garnet. Open pit, 500 tons; hand. F. L. Allen, supt. LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES

### STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine or Quarry, Kind of Stone, Kino of Mine or Quarry, Annual Output in Tons of

Town AND COUNTY.	2.00 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Mt. Pleasant Westchester (P. O. Pleasantville) Ry, 501.	Snowlłake Marble Co., New York City, 157 Broadway. Geo. S. Rice, prest.; H. Groenemeyer, seey.; A. L. Pritchard, treas, and mgr. Cap. stk. \$100,000. Snowlłake, marble. Open pit, 10,000 tons; steam; mill. 3 klins. R. S. Henwood, supt.
New Hartford Oneida Ry, 209, 505.	E. F. Thompson (local). Thompson, brown sandstone. Open pit, 1,000 tons; horse, hand,
Oxford Chenango Ry, 209, 505.	F. G. Clarke Blue Stone Co. Oxford, bluestone; steam; mill, H. W. Clarke, supt.
Phillips Putnam P. O. and Ry. Cold Spring 561.	Lewis J. Balley. Breakneck, granite. Open pft; mill.
Plattsburg . Clinton Ry, 213, 124.	Barlington Manufacturing Co., Barlington, Vt., 251 Pine st. Torrey E. Wales, prest.; Micah H. Stone, seey.; Joel H. Gates, treas.; Clas. R. Hayward, mer. Cap. stk, \$15,000. Lepanto and Freuch gray marble. Open pit; steam; nill. P. Lezotto, supt.
Potsdam, St. Lawrence Ry, 638,	Potsdam Red Sandstone Co. Sandstone. Steam,
Ridgeway Orleans Ry, Medina 501,	John Le Valley, Shelby Basin, N. Y. Cap, \$50,000. Le Valley's, sandstone. Open pit, 14,060 tons; hand and horse; mill.

Rochester l'Ister (P. O. Accord) Ry, Rosendale 788, T. U. Harnden, Kyserike, N. Y. Cap. \$4,079. Esopus, millstone. Open pit, 500 tons; hand.

Ulster Esopus Millstone Co., Kingston, N. V. Wm, M. Hayes, prest, and treas.; A. Hayes, seey, and mgr. D. Ry. — Esopus, millstone. Open pit; hand; mill.

James S. Vanetten, Granite, N. V. Esopus, millstone. Open pit; hand; mill,

Warsaw. Ry, 85, 503, Warsaw Blue Stone Co., N. S. Beardsley, prest.; W. J. Emerson, seey, and mgr.; S. B. Whitlock, treas. Cap. stk, \$160,000. Warsaw Blue, bluestone. Slope, open pit, steam, mill. A. B. Davis, supt. Wyoming

Warwlek Ry, 394 Orange Tuthlil & Hankins. Pochuch Mountain, granite. Open pit; hand. Floyd 8, Tuthill, supt.

Wawarsing Ulster F. H. Lawrence, Esopus, millstone; hand; cement mill.

SEE ALSO SUPPLEMENTARY LIST

# NORTH CAROLINA

### BARYTES

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USEO, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT

Stackhouse

Madison J. T. Morehead, Leaksville, N. C. Open pit, 1,200 tons: band.

#### COAL-BITUMINOUS

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND

COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Egypt Depot Ry, 244,

Chatham Egypt Coal Co. Samuel A. Henzey, prest, and mgr.; Fletcher Coleman, seey, and treas. Cap. 8tk. \$330,000. Egypt. Shaft, 100,000 tons; steam.

### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCH, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNA'ES, ETC., AND NAME OF MINE SUPERINTENDENT.

Blue Wing Ry. Mayo 32.

Granville Granville Copper Co., Washington, D. C., 1416 F st. H. S. Cummings, prest.; U. S. Conger, seey.; Chas, A. Williams, treas.; Geo, B. Chittenden, mgr. Cap. stk, \$500,000. Blue Wing, copper, bornite, quartz. Shaft, 6,000 tons; steam; concentrator, 6,000 tons. J. C. Fenton, supt.

Cullowhee . . . . Ja Ry, Webster 622, Raker City . . . Granville (P. O. Blue Wing) Ry.

Mayo 32.

Jackson | Southern Mining & Manufacturing Co. Cullowhee, Wa-ze-Nutta and Savannah, copper, mica and knolin.
Shaft and tunnel. Blue Wing Copper Co. William Whitmen, prest.; J. R. Kauffman, seey.; A. Walter, treas.; William Raker, mgr. Cap. stk. \$500,000. Blue Wing, copper. Shaft and drift, 20,000 tons; free; steam,

# CORTNDUM

LOCATION OF MINE
OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPINO POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Town

Ellijay Nebster 622. Macon J. D. Moore. Turkey Knob, Corundam Hill and Whitcomb. Open pit,

### GOLD AND SILVER

LOCATION OF MINE. RAILWAYS WATER COUTES AND SHIPPING POINT. AND COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Avery's Creek, Buncombe Ry. Asheville 622 (14 m.).

Levi Jackson, Asheville, N. C. Connty Line, gold and silver. Open pit; hand.

Brindletown . Burke Morganton 622,

Boyd Co. Hancock, gold. Placer; free; water. J. F. Boyd, supt.

Carolina Queen Consolidated Co., Boston, Mass., 178 Devonshire st., Charles M. Bruce, trustee, Carolina Queen Consolidated, gold. Placer, shaft; free; steam; 5 stamps, Frank W. Boyd, supt.

M. H. Goins. Brindletown, gold. Placer, open pit, F. A. Johnson, Queen Mine, gold, Placer, open pit: hand,

W. Kelley. White Bank, gold. Open pit; hand, J. C. Mills, supt.

John C. Landreau, Washington, D. C. Hancock, gold, Placer; hand,

William Long. Vein, gold, Placer, tunnel; hand,

Cyrus Settlenyre, Gold,

Chandler's Grove W. E. Russell, Cap. \$1,000. Russell, gold, quartz, Open; hand,

Montgomery Ry.Lexington 622.

# NORTH CAROLINA] THE MINING DIRECTORY—MINES.

## GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, XAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,040 POUNDS, KIND OF POWER (NED, NAMAD MILLS, ETC., AND NAME OF MINE SUPERINTEMENT.)
TOWN AND COUNTY.	Or A Other Chest States assessed as any area attended to the control of the contr
China Grove, Rowan Ry, 622 (4 miles),	Aldrich Mining Co., Salisbury, N. C., W. F. Aldrich, prest.; A. P. Lighthill, seey., treas, and mgr. Cap. stk. \$30,000. Southern Belle, gold. Shaft and slope, 3,000 tons; free and refractory; steam; 10 stamps. M. Folsom, supt.
Clear Creek Cabarrus Ry, Harrisburg 622,	Simpson River Silver & Gold Mining Co., Hornet, N. C. Robert Simpson, mgr. Cap. stk. \$6,150. Simpson, gold and silver. Tunnel, 100 tons; steam. M. O'Donnel, supt.
Derita . Mecklenburg Ry, 622.	C. A. Meggar, Hunter, gold. Open pit, free; steam; stamp mill.
Flaggtown , Montgomery Ry, Lexington 622,	F. E. Reeves, Gold. Shaft; water,
Garfield Rowan Ry, Gold Hill 622.	Lucy E. Williams, F. R. Williams, mgr. and supt. Gold Knob, gold and copper. Shafts; refractory: steam; 5 stamps.
Gastonia	Long Creek Co., Richmond, Va., City Bank, T. M. R. Talcott, prest.; Wm. II. Palmer jr., seey, and trens. Cap. 8tk.\$100,000. Macarty Hill, Dixon, Asbury, gold. Shafts, refractory; steam (developing).
Globe Caldwell Ry, Lenoir 622.	Watanga Mining Co., Knoxville, Tenn. Charles H. Brown, prest., T. F. Brugdorf, seey, and treas: J. H. Todd, mgr. Cap. stk. \$100,000. Old Gragg. gold. Slope, 200 tons; free; water; stamp-mill. Affred Wortman, supt.
Gold Hill Rowan Ry, 622,	F. H. Manney, Cap. 810,000. Rumple and McMackin, gold. Shafts; free and refractory; horse,
	New Gold Hill Co., Ltd., London, Eng., 15 George et., Mansion House, Major General Lloyd, prest., Richard L. Hobbs, seey.; Richard Eames Jr., mgr. and supt. Cap. 8tk, \$1,750,000. Gold Hill, gold and copper. Shafts, 6500 tols; Ferranciory; steam; 20 stamps.
Hartland . Caldwell Ry, Lenoir 622,	Bee Mountain Mining Co., Lenoir, N. C. Miller, gold. Open pit, free; steam; mill (developing).
Hornet Mecklenburg Ry, Charlotte 622.	C. P. Mingo & E. H. Hiuson, Cap. 82,040. Harris. Open pit and shaft; free (developing), C. P. Mingo, supt.
Huntersville, Mecklenburg Ry, 622.	W. R. Jordan, Derita, N. C. – Jordan, gold. – Open pit; water,
Jamestown	Central Gold & Copper Mining Co., Norfolk, Va. John B. Whitehead, prest. Cap. stk. \$100,000. Central, gold and copper. Shaft: tree: steam; mlll.
	(North State Copper & Gold Muning Co., Baltimore, Md., 6, South Gayst, Charles K, Oliver, prest.) Firman Sadler, seey., W. H, Sadler, treas. Cap. sek, \$1,00,000. North State, gold and copper. Shafts, funnel and slope, free, retractory; steam, water; 20 stamps and concentrator. James Palmer, supt.
	Southern Gold & Copper Co., Philadelphia, Pa., 2033 Walmit'st. George R. Morehouse, prest. Cap. stk., \$100,000. Southern, gold and copper. Shafts; free and refractory, steam. James Palmer, supt.
Lenoir valdwell Ry, 622.	Blue Rldge Mining Co. Husbands Creek, Bald Knob, gold. Steam; stamp mill. J. S. Perkins, supt.
Machpelah Lincoln Ry, Iron Station 404 7 miles).	W. A. Graham, Cap. \$10,000. Graham, gold, silver, copper, Open and placer; free; hand,
Matthews Mecklenburg Ry, 104.	Battimore & North Carolina Gold Mining Co., Baltimore, Md., 2t 8, Gay st. T. W. Hooper, seey. Baltimore and North Carolina, gold quartz. Shaft and slope, free and refractory; steam; 5 stamps. P. G. Lldher, supt.
Monroe Union Ry, 104, 664.	A. A. Laney. Lynchen River, gold. Shaft and open pits; free (developing).
Moratock Montgomery Ry, Albemarle 622.	Moratock Mining Co., Albemarle, N. C. Moratock, gold. Open plt; refractory; steam; 10 stamps. S. T. Muffly, supt.
New London . Stanley Ry, 622.	Jine Mining Co., T. J. Crowell, prest.; T. M. Urowell, seey.; J. L. Crowell, treas.; H. C. Crowell, mgr. and supt. Cap. stk, \$5,000. Jine, gold. Shaft, 10,000 tons; free, steam; 40 stamps.
	Parker Gold Mines Co., Ltd., London, Eng., S. (ormhill st., James Judd, prest.; N. Goldman, seey, and trens.; Henry Judd, ingr., and supt. Cap. stk. 8525000. Parker, Flint Springs, gold. Placer, open pit and shaft; free; steam and hydraulie; 10 stamps.
Ransom's Bridge, Franklin Ry, Maeon 622.	Arthur Arrington, Louisburg, N. C. Arthur Arrington, gold quartz. Placer, free.
	S. G. Sturges, W. E. Sturges, mgr. Portis, gold. Placer, open pit; steam; 45 stamps.
Ry.Asheboro622 8 m	John T. Lowe, Cap. \$20,000. Bingham, gold,
Silver Hill : Davidson Ry, Lexington 622.	Silver Hill Mining Co., New York, N. V. Cap, 8tk, \$200,009. Silver Hill, gold, 8 lver, lead and zinc. Shaft, 8,000 tons; refractory; steam; 29 stamps. J. M. Prim, supt.

### GRAPHITE

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPIND POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUFERINTENDENT.
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Raleigh. , Wake Tucker, Pullen & Wharton, 236 Fayetteville st. Cap. stk. \$25,00). Heron, plambago. Slope; hand, 615, 622.

# IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTFUT IT TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, EUC., AND NAME OF MINE SUPERINRESMENT
TOWN AND COUNTY.	
Bessemer CityGaston Ry. King's Mountain 622.	Bessemer City Mining & Manufacturing Co. J. S. Carr, prest,; J. A. Smith, secy, and treas.; J. A. Pinchback, mgr. and supt. Cap. stk. \$55,000. Ornond, Little Mount, Furguson and Ore Hill, bessemer. Shafts, 12,000 tons; Steam.
Big Ore Bank Lincoln (P. O. Derr) Ry, Iron Mountain 104.	Derr & Reinhardt. Cap. \$21,000. Big Ore Bank, shaft and tunnel; stehm; furnace.
BurnsvilleYancey Ry, Marion 622.	Ray & Burton. G. D. Ray, mgr. Cap. \$20,000. Magnetite and corundum. Open pit, 1,000 tons; horse.
Ry. 622.	J. A. Blackwelder. Catawba Valley Iron Works. Shaft and tunnel; water; furnace.
Cranberry Mitchell Ry, 24.	Cramberry Iron & Coal Co. Frank Firmstone, prest, John S. Wise, seey, and trens.; C. H. Nimson, mgr. Cap. stk, \$2,000,000. Cramberry, magnetic. Tunnels and open pits, 2,000 tons; steam, air, electricity, horse and hand; furnace, 3,000 tons. S. M. Pitman, supt.
Danbury Stokes Ry, Walnut Cove 523,	Carolina Iron Mining & Investment Co. W. B. Wills, prest.; G. E. Brodrick, secy, and treas.; H. B. Tilden, mgr. Cap. stk. \$1,000,000. Magnetic. Open pit, 22,500 tons.
King's Mtn Cleveland Ry, 622.	Ormand Co. J. J. Ormand; mgr. Cap. stk. \$10,000. Chestnut Ridge, mica, iron and tin. Open pit; hand.
Ore Hill Chatham Ry. 98.	North Carolma Steel & Iron Co., Greensboro, N. C. J. A. Odell, prest.; C. D. Benbow, seey, and treas.; J. D. Kase, mgr. and supt. Cap. stk, \$1,000,000. Ore Hill, hemalite and magnetic. Open pit, 20,000 tons; steam and horse; furnaces.
Pilot Mountain Surry Ry.98.	North Carolina Steel & Iron Co., Greensboro, N. C. J. A. Odell, prest.; C. D. Benhow, seey, and treas.; J. D. Kase, mgr. and supt. Cap. stk. \$1,000,000. Pilot Mountain, hematite and magnetic. Shafts and open pits, 2,2000 tongs, steam; furnaces.
44 44	David W. Worth. Magnetic. Water,
Rockford Surry Ry, 622.	North Carolina Steel & Iron Co., Greenshoro, N. C., J. A. Odell, prest.; C. D. Benbow, seey, and treas.; J. D. Kase, mgr. and supt. Cap. 848, \$1,000,000. Rockford, hematite and magnetic. Shafts and open pits, 20,000 tons; steam; furnaces.
Seth Granville Ry, Oxford 622.	W. Raker & Co. Cap. \$10,000. Raker. Shaft, 20,000 tons.
South Toe., Yancey Ry, Marion 622.	E. Burnett. Burnett, mica, iron, silver and lead. Slope; hand.

## MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED. FTC., AND NAME OF MINE SUFFERINTENEENT.
TOWN AND COUNTY.	Of Average Color, and Assault of the Color o
Bakersville "Mitchell Ry, Marion 121, 622.	John Collis, Estatoe, N. C. Cap. 85,000. Murphy Rock. Open pit, 5 tons; hand.
45	Flat Rock Mining Co., Penland, N. C. Geo, H. Zimmerman, prest.; J. Milton Bailey, secy.; Isaac H. Bailey, treas.; J. Milton Ellis, mgr. Cap. stk. \$50,000. Flat Rock.
16 11	J. L. Rorison & Co. Hasox, Cloudland and Clarissa. Shaft, tunnel, slope and open pit; steam.
Burnsville Yancey Ry, Marion 622.	W. E. Gouge. Open pit; hand.
Cashiers Jackson Ry, Walhalla, S. C.,622.	J. F. Rice, Mica and corundum. Hand.
Cowarts Jackson Ry, Webster 622.	John H. Smith, Wood, Open pit; hand.
Cranberry,, Mitchell Ry, 241,	Western Carolina Mica Co., Plum Tree, N. C. Geo, A. Blood, prest.; H. A. North, secy.; S. Wm. Blood, treas.; W. Vance Brown, mgr. Cap. 8tk. \$50,000. Mica and feldspar. Steam.
Cullowhee Jackson Ry, Webster 622.	Hamlin & Fordyce, Detroit, Mich., 621-623 Hammond Rldg, Wm. T. Hamlin, prest.; T. N. Fordyce, v-prest.; Herman Nagle, treas.; W. W. Helm, and supt. Cullowhee, mica and corandum. Slope, tunnel and open pit; steam, water, horse, ham.
Ellijay Macon Ry, Webster 622.	J. D. Moore, Pressley and Rocky Face. Shaft.
Franklin Macon Ry, Webster 622,	Eugene Munsell & Co., New York City, 218 Water st. Open; hand.
46	C. G. Shepherd (lessee). Beaseley No. 2. Tunnel; hand.
Grassy Creek Mitchell (P. O. Spruce Pine) Ry. Marion, Va., 622.	Asheville Investment Co., Asheville, N. C., 45/8, Main st. C. F. Griffing, prest, and mgr.: Geo. I. Parioley, secy.; John C. Brown, treas. Cap. stk. \$200,000. Cook. Shaft and tunnel; hand.
Ingalls Mitchell Ry, Cranberry 241.	Jason E. Burleson. Horse, hand and steam.
B1	James G. Wiseman. Tunnel; hand.
Ledger Mitchell Ry, Marion 622, 121.	John Willis, Cap. \$1,000, Howell, Shatt; horse,
Mica Mitchell Ry, Marion 622, 121.	M. D. Wiseman, Wiseman, Shatt, tunnel; hand.

### MICA=(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Product, Kind of Mine, annual Outfut is Tons of 2,000 Pounds, Kind of Power Used, Etc., and Name of Mine Suferintendent.
2003 230 000311.	
Plumtree Mitchell Ry, Cranberry 241.	Toe River Ground Mica Co. H. R. Jones, prest, and supt.: Geo, H. Zimmerman, seey.; T. B. Vance, treas.; J. E. Warwick, mgr. 300 tons; water.
South Toe Yancey Ry, Marion 121, 622.	J. L. Gibbs, Burnsville, N. C. Cap. 81,500. O'Brien. Shaft; horse and hand.
Spruce Pine Mitchell Ry, Marion 12t, 622.	Irby & Gilman, Cap. \$12,000. Blazelock and Howell, 40 tons; steam,
	J. A. McDonald, Marion, N. C. Win, McBee, mgr. Hawkins. Hand; stone mill.
Webster Jackson Ry, 622.	C. P. Bryson, Jumbo, Shelton, Mt. Bryson. Tunnel, open pit; hand.
· ·	M. Buchanan. East Fork. Open pit and shaft.

	NICKEL
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock.  Name of Mine, Kird of One, Kind of Mine, annual outful in Toss of 200 Founds, Kind of Power Used, Smelters, Etc., and Name of Mine Superintendent.
Webster Jackson Ry, 622,	Prof. Emmons. Webster, niekel and corundum. Shaft, tunnel, slope, open plt; hand. J. J. Wild, supt. Pinckney & Willis. Pinckney, niekel and chrome iron. Open plt.
	PHOSPHATE
LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY	Name of Coupany or Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name and Kind of Mine, annual Output in Toss of 2,00 Polyde, Kind of Power Used, Mills, Erg., and Name of Mine Superintendent.
Navassa Brunswick (P. O. Wilmlington) Ry, 817.	Navassa Guano Co., Wilmington, N. C., cor, Water and Princess sts. Donald MacRae, prest.; D
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	ONE, MARBLE, GRANITE AND ONYX  NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MAIDLE MILLS, LIMEBLESS AND CALACITY, ETC., AND NAME OF MINES EXPERIENTEDEDER.
Ry. 344.	Egypt Brownstone Co. Samuel A. Henszey, prest. Egypt, brownstone. Open pit (developing).
ron Station Lincoln Ry, 194.	J. A. Brown. Open pit; hand; mill.
dount AirySurry Ry, 98.	Mount Airy Granite Co., Greensboro, N. C. R. Perry Gray, prest.; J. W. Fry, secy.; Thos. Woodroft treas, and mgr. Cap. stk, \$30,000. Mount Airy, granite. Steam, mill. Wm. A. Woodroffe, supt.
Salisbury Rowan Ry, 622,	$D,M, Rodger\ (local), Organ\ Church, N, C.  Brown\ Rock, white\ granite.  Open\ pit;\ hand,$
	Stone Mountain Granite & Improvement Co., W. L. Klutz, prest, and mgr.: J. Samuel McCubbins, seey, at treas. Cap. stk. \$30,300. Stone Mountain, white granite. Slope, 100,000 tons; steam.
	J. T. Wyatt Granite Millstone Manufacturing Co. Cap. 810,000. Wyatt's Granite Mountain, white argray granife. Open pit and slope; hand. J. T. Wyatt, supt.
Sanford	Carolina Brownstone Co., Norfolk, Va., Main st., J. W. Hinsdale, prest.; Chas. M. Cassell, seey, and trea Cap. stk. \$85,000. Carolina, brownstone. Slope, 12,000 tons, steam. J. E. Malloy, supt.
	Southern Red & Brown Stone Co., Philadelphia, Pa., S. E. cor, American and Diamond sts. Ezekiel Steart, prest., John B. Stewart, seev, and treas. Cap. stk. 82,000. Red and brown stone. Open pi steam developing 1, Mala Kichardson, supt.
	Angus M. Smith, Greensboro, N. C., P. O. Box 301, Granite, 20,000 tons. Trying Smith, supt.

Homer

# NORTH DAKOTA

### COAL-BITUMINOUS

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Town COUNTY.

Mercer Homer Coal & Mining Co., Jersey City, N. J., 101 Arlington av. Josephus Plenty, prest, and mgr., Charles Ry, Bis-Plenty, secy.; Wm. A. Rosenbaum, treas. Cap. stk. \$140,000, Homer. Tunnel, 100,000 tons; electricity and steam.

(P. O. Causey) Ry, Bis-mark 529, Lehigh ...... Stark (P.O.Dickinson)Ry,529, .. .... Morton Ry. 529.

Lehigh Coal Mining Co. Geo, Q. Erskine, prest.; R. E. Fleming, seey.; A. C. McGillivray, treas, and mgr. Cap. stk, \$200,000. Lehigh. Tunnel, 30,000 tons; horse. F. Reilly, supt.

North Dakota Coal & Power Co., Mandan, N., Dak. H. R. Lyon, prest, and treas.; H. T. Wadeson, seey., mgr. and supt. Cap. stk. \$50,000. Slope, 30,000 tons; horse.

H. T. Wadeson, Cap. \$2,000. Frances, Slope, 20,000 tons; horse,

SEE ALSO SUPPLEMENTARY LIST

# OHIO

### CEMENT

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF PRODUCT, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 Pounds, Kind of Power Used, Cement Mills, Etc., and Name of Mine Superintendent,

bon 503, 586,

Centre Columbiana Ohio Cement Co. A. G. Smith, prest, and mgr.; M. P. Child, secy. Cap. stk. \$20,000, Cement, rock. P. O. and Ry. New Lis Tunnel, 8,000 tons; steam; mill, 10,000 tons.

Gypsum Ry, 383, Sandusky . . . . . Ry. 375, 383.

Ottawa Marsh & Co., Sandusky, Ohio, Sloane Block, Cap. \$200,000. Marsh, Open pit, 25,000 tons; steam, hand; mill, Henry German, supt.

.. Erie Sandusky Portland Cement Co., Cleveland, Ohio, 711 Perry-Payne Bldg. Dam, P. Earls, prest.; A. St. J. Newberry, seey, and treas; Prof. S. B. Newberry, ngr. Cap. stk. \$500,000. Martins Point, marl. 20,000 tons; steam; nill, 1,55000 tons.

### COAL-ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS. KIND OF POWER USED, COAL BREAKERS, WASHERS, COME OVENS, AND NAME OF MINE SUPERINTENDENT.

Guernsey J. H. Buckingham. Milener. Open pit, 13,500 tons.

Cambridge.... Ry, 42, 174, Massillon Ry, 171, 563, 809,

Stark | Diake Coal Co., Cleveland, Ohio, Wilshire Bldg. | Reinhard Keller, prest, and mgr.; J. W. Warwick, seey, and treas. | Cap. stk. \$40,000. | Drake. | Slope, 60,000 tons; steam. | C. A. Kouth, supt.

Massillon City Coal Co. J. A. Beidler, prest.; J. F. Hocock, secy, and treas.; Wm. Purman, mgr. Cap. stk. \$60,000. Massillon City. Shaft, 100,000 tons; steam. Massillon Elm Run Coal Co. J. A. Beldler, prest.; J. F. Poenek, secy.; H. Huher, treas.; J. A. Wilson, mgr. Cap. stk. \$90,000. Elm Rum. Shaft, 100,000 tons; steam.

Jefferson Jefferson Fire Clay Co. Cap. \$50,000. Shatt, 35,000 tons; steam. D. H. Kerr, supt. Ry, 534, 563,

# COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PERICIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPPRINTENDENT.
TOWN AND COUNTY.	COAD DALGARDIS, WASHEND CORD COLOR AND
Akron Summit	Lake View Coal Co. John Todd, prest.; A. J. McCartney, seey, and treas.; George F. Stambaugh, mgr. Cap. stk, \$200,000. Lake View. Shaft, 30,000 tons; steam. Wm. Phillips, supt.
Alliance . Stark Ry, 13, 563.	E. S. Davis (local), 116 Cambridge st. Wangh. Shaft, steam,
Alliance Jn. Malioning (P. O. Alliance) Ry. 563.	J. J. Robertson (local). Shaft, 3,000 tons; steam.  Henry L. Bandat. Cap. 8000. Bandy. Slope, 1,875 tons; horse.
Armstrong's Mills Belmont Ry, 55.	Captina Coal Co. Cap. 8tk, \$10,500. Captina. Shaft, 8,000 tons., steam. M. V. Gates, supf.
Ry. 173.	James Connor. Drift (developing).
Bannock Belmont Ry, Bruce 171.	Wm. Taylor (local). Tunnel, hand.
Barton Belmont Ry, 171, 699.	John H. Denham, Cap. \$12,000. Maple HUL Drift, 5,500 tons, horse
44	W. S. Taggart, Cap. \$6,000. Taggart, Drift, 25,000 tons; horse,
Beldler Tuscarawas Ry. Barnhill 171. Bellaire Belmont	C. J. Nungesser, Cap. 88000. Walton Ridge. Open pit, 12,000 tons; horse. G. Affolter, supt.
Ry, 42, 55, 171, 588, 563,	
	Bellaire Nail Works. J. R. McCortney, prest., A. B. Carter, seey, and treas. Cap. 8tk, \$750,000. Slope, 483 tons; hand. Wm. Turnbuff, supt.
** 44	R. Heslop & Son. Cap. \$2,000. Belmont. Tunnel, 7,540 tons. horse. W. Heslop, supt.
	Morgan & Gorrell, Morgan, Tunnel, 28,000 tons; horse, George E. Morgan, supt. G. O. Robinson, Georgetown, Ohio, Cap. 825,000, Tunnel, horse,
44 11	Louis Rockershousen, Cap. 850,000. Pittsburg, Slope, 10,000 tons; steam, John Hands, supt.
44 34	James Turnbull & Co. Cap. stk. \$10,000. Schicks. Open pit, 34,600 tons; horse. Win, O'Mally, supt.
Beloit Mahoning By, 563.	
	Youngstown Paving Brick Co., Vonngstown, Ohio, 504 Belmont av. I. K. Hgenfritz, prest., Horace Smith, sery., A. B. Fogg, treas., Frank Barber, mgr., Cap. 8tk, 850,000. Beloit. Shaft, 6,000 Jons, steam. Frank Barber, sapt.
Bergholz Jefferson Ry, 13,	J. P. George & Co. (cap. 810,000). Bergholz. Drift, open pit, 42,000 tons; steam, [8, 8checkler, supt.
Ry, 583,	Henry Miller, Goshen, Drift, 1,500 tons; horse, S. Miller, supt.
**	Warner Bros. (local). Stoney. Open pit, 15 tons, horse.
Boardman . Mahoning Ry. Voungstown 383, 503, 503, 591, 592.	Foster Coal Co., Vouingstown, Ohio, 23 Public Square, U. H. Andrews, prest., John Shaw, seey, and treas. Tippecanoc. Shaft, 40,533 tons; steam, J. Head, supt.
Bradbury , Meigs Ry, Middleport 181, 344, 533.	Thomas H. King. Drift, 18,000 tons; horse,
	Consolidated Coal & Mining Co., Cincinnati, Ohio, 29 W. Fourth St. Alex McDonald, prest., Oliver Kinsey, see; R. Folsam, treas, and nigr. Cap. stk. \$207,000. Brush Fork. Tunnel, 475,000 tons; steam, M. E. Shaffer, supt.
Ry, 171, 583, 563,	Milton McConnaughy   local  . Cap. \$5,000. Open pit, 450 tons. horse,
	Brilliant Steel & Iron Co., Wheeling, W. Va. George K. Wheat, prest. Alex, Updergraft, seey, and treas., A. U. Wilson, mgr. Cap. stk. 8150,000. Brilliant. Shaft, 17,600 (ons; steam. Richard Humes, supt.
Broadwell Athens (P.O.Wakeup Ry. 766.	
Buchtel . Athens Ry, 181.	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bidg. J. O. Moss, prest.; S. A. McMangal, seey., W. J. Redbigton, from S. R. H. Johnson, v-prest, and gen, ingr. Nos. 26, 6, 22 and 28, Drift, 189508 tones, steam, e-etricity. Vint Purguson, supt.
Buffalo Guernsey Ry, Hartford 236,	
Byesville . Guernsey Ry, 174.	${\bf James\ A.\ Anderson,\ Cleveland,\ Ohio,\ 204\ Superior\ st.} Shaft,\ 100,000\ tons,\ steam. W.\ A.\ Smith,\ supt.$
	Cambridge & Elyria Coal Co., A. H. Johnson, prest., E. K. Mussey, seey., treas, and mgr. Cap. 8tk, \$100,000. Trail Run. Shaft, 150,000 tone; steam, George Harrison, supt.
	Enterprise Coal Co. (local). Shaft; steam.
**	Huntington Coal Co., Cleveland, Ohio, Western Reserve Bldg. (ap. \$50,000, tambridge, Shaft, 184,800 tons; steam. George Harrison, supt.
4+	Pioneer Coal Co., Cleveland, Olno, cor, Bank and Superior sts. S. Granger, prest.; C. S. Barnett, secy, and treas. Cap. stk. \$100,000. Pioneer, slope, 200,000 tons. W. H. Davis, supt.
Cambridge Guernsey Ry, 42, 174.	Ohio Coal Co. A. J. Warner, prest, and treas.; George 8, Jones, seey., 8, C. Hoyt, mgr. Cap. stk., \$100,000. Nickolson, Macksburg, Glenwood. Shaft, dr.R. 89 (1918; steam. J. B. Oustine, supt.

### COAL-BITUMINOUS-(CONTINUED)

COAL-BITUMINOUS (CONTINUED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUFERINTENDENT.	
CambridgeGuernsey (Continued.)	Standard Coal Co., Columbus, Ohio, 25 Wesley Block, 101 N, High st. D, Mathews, prest.; Charles Ratzel, seey, and treas. Cap. stk. \$190,000. Standard, No. 3. Open pit, 115,000 tons; horse, O. P, Mathews, supt.	
Campbell Lawrence Ry, Mt. Vernon 156.	Campbell Iron Co., Ironton, Ohio. J. H. Moulton, prest.; H. H. Campbell, seey, and treas.; J. W. Campbell, ngr., and supt. Cap. stk. \$100,000. Mt. Vernon Furnace. Open pit, 5,000 tons; hand.	
Canal Dover Tuscarawas Ry. 171, 174, 563,	Ben Bevan. Wagner, Tunnel, 5,000 tons; horse,	
** "	Crown Fire Clay Co. J. F. Townsend, prest.; H. B. Mantón, secy, and treas.; Thomas Kemp, mgr. Cap. stk, \$100,000. Tunnel, 7,000 tons; horse. Martin Clapper, supt.	
	Dover Fire Brick Co., Cleveland, Ohio, 44 Mercantile Bank Bldg. C. S. Barrett, prest, and freas.; George H. Ganson, seey.; P. Arnold, nigr. Cap. stk. \$100,000. Barrett. Tunnel, 1,500 tons. George Bolian, supt.	
	James T, l'atton (local). Open pit, 2,100 tons.	
Canal Fulton Stark Ry, 171, 563, 533.	Ridgway Burton Co., Massillon, Ohio. J. P. Burton, prest, and treas.; D. Johns, seey. Cap. stk. \$30,000. Hern Brook. Shaft, 37,500 tons; steam. Wm. Crookston, supt.	
Canton Stark Ry, 173, 563, 778.	H. S. Belden, 148 S. Market st. Orchard Hill. Slope, 6,000 tons; steam.	
14	S. D. Price, Cap. \$2,000. East Hill. Slope, 4,000 tons; horse, S. L. Jenkins, supt.	
34	Christian Warstler, Oberlin. Slope, 1,500 tons; water. Chas. L. Warstler, supt.	
Rv. 42.	P. J. Beckler. Cap. \$5,000. Trace Run. Tunnel. 6,000 tons; horse.	
Carbon H.il Hocking Ry. 181.	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redington, treas.; R. H. Johnson, vprest, and gen. mgr. No. 21. Drift, 66,000 forms; steam, horse, Vint Furguson, supp.	
	Franklin Coal Co., Cleveland, Ohio, 802 Society Savings Eldg. Z. Doll, prest, and mgr.; C. W. Baine, seey.; F. K. Moore, treas. Cap. stk. \$25,000. Scott. Open pit, 40,000 tons; horse. Irvin Baysinger, supt.	
Centreville Gallia (P. O. Thurman) Ry. Oak Hill 42, 156.	Thos E. & E. D. Evans (local). Tunnel, 600 tons; hand. Thomas E. Evans, supt.	
	D. D. Morgan (local), Cap. \$2,000. Open pit; hand.	
Clinton Summit Ry, 42, 169, 563.	Fox Lake Coal Co., Cleveland, Ohio, 506 Western Reserve Bidg. J. P. Burton, prest. E. E. Barney, seey.; J. B. Zerbe, treas, and mgr. Cap. stk. \$30,000. Clover Hill. Shaft, 100,000 fons; steam. John Feather- stone, supt. Messenger. Shaft, 150,000 fons; steam. George J. Huber, supt.	
	tieo, & S. E. Porter (local). Tunnel, 1,500 tons; hand.	
	Philip Carey (local). Tunnel, 3,600 tons; hand.	
	John Peters jr. Cap. \$40,000. Coal Grove. Tunnel, 20,000 tons; horse. C. Palmer, supt.	
Coalton	Buckeye Coal Co. M. Kisinger, mgr. Cap. \$13,000. Drift, 10,000 tons; horse,	
	Gosline & Barlow, Toledo, Ohio, 422 Madison st. Victor, Slope, 50,000 fons; horse, T. J. Evans, supt.	
	John F. Hall, Cap. \$8,000. Chalton. Slope, drift, 24,000 tons; steam. N. Cameron, supt.	
"· · · · · · · · · · · · · · · · · · ·	Hippel Coal Co. Cap. sfk, \$40,000. Hippel, Slope, 40,000 tons; steam, W. D. Hippel, supt.	
	W. A. Jones. Garfield. Open pit, 400 tons; horse.Poling Coal Co., Dayton, Ohio. H. J. Poling, prest. Cap. stk. \$10,000. Tunnel, 12,000 tons; horse. Wm.	
	Ellis, supt.  Southern Ohio Coal & Iron Co., Dayton, Ohio, 302 E. Third st. A. A. Thomas, prest.; W. L. Caten, seey., treas, and mgr. Cap, srk, \$500,000. Tunnel, 60,000 fons; steam, horse, F. D. McKinniss, supt.	
Coleman Columbiana	treas, and mgr. Cap. stk. \$500,000. Tunnel, 60,000 fons; steam, horse. F. D. McKinniss, supt.  New Lisbon Wining Co. U. C. Hafch, prest.: W. H. Warner, treas,: Thomas Prosser, mgr, and supt. Cap.	
	New Lishon Mining Co. U. C. Hatch, prest.; W. H. Warner, treas,; Thomas Prosser, mgr, and supt. Cap. stk. \$5,000. Coleman. Slope, 25,000 tons; steam. Union Fire Clay & Stone Co. C. Celeman, prest.; C.S. Coleman, seey., treas, and mgr. Cap. stk. \$10,000.	
	Coleman Tunnel, 3,600 tons; hand, J. T. Griffiths, supt.	
Ry, 173, 584.	David Davis, Cap, \$40,000. Conesville. Tunnel, 66,000 tons; horse.	
Congo Pickaway ky. Kingston 366, 523.	Congo Coal Mining Co., Columbus, Ohio. H. D. Turney, prest.; T. W. Guthrie, seey.; G. S. Beeson, freas.; Thomas Corcoran, mgr. Cap. stk, \$250,000. Congo. Shaft, 300,000 tons; electricity. Thomas Corcoran, supt.	
Connelville Muskingum (P. O. Dillon) Ry. 182.	Columbus & Brush Creek Coal Co., Columbus, Ohio. H. S. Maynard, prest.; B. L. Maynard, seey. and treas. Cap. stk. \$20,000. Brush Creek. Slope, 60,000 tons; horse. Bruce Mauck, supt.	
Corning	Sunday Creek Coal, Co., Columbus, Obio, Board, of Trade Bldg. J. S. Morton, prest.; J. F. Stone, seey, and treas; J. E. Martin, mgr. Cap. stk. \$4,000,000. Sunday Creek and 3 others. Shaft, 700,000 tons; steam. Fred Miller, supt.	

Corwin — Jackson Tom Corwin Coal Co., Dayton, Ohio, 235 S. Ladlow st. S. J. Patterson, prest.; H. J. Dreese, seey.; J. A. Goalton 155, 535. Murphy, treas; J. W. Lowe, v.-prest, Cap. stk. \$30,000. Tom Corwin. Shaft, 58,332 fons; steam. William E. Davis, supt.

Coshocton Coshocton C. L. Cassingham. Cap. \$15,000. Tunnel, 50,000 tons; horse, Ry. 173, 584.

" " Hamond Coal Co. J. W. Cassingham, prest.; C. L. Cassingham, secy., treas., mgr. and supt. Cap. stk. \$10,000. Deamond. Drift, 45,000 tons; horse.

# COAL-BITUMINOUS-CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Anneal Outfelt in Toss of 2,000 Founds, Kind of Power Used, Coll Principals Wighles Core Officers and Name of Mine Street Principals and College Core Officers and Name of Mine Street Principals and Capital Street Principal Street Prin
TOWN AND COUNTY.	COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Coshocton Coshocton (Continued.)	Wm, G. Hay. Cap. \$12,000. Tunnel, 30,000 tons; horse. Charles West, supt.
**	Thomas Leer, Tunnel, 225 tons; horse,
	Morgan Run Coal & Mming Co., Cleveland, Ohio, H Bratenahl Bildg. F. C. Goff, prest, and mgr.; H. D. Dennis, seey, and treas. Cap. stk. \$50,000. Morgan Run. Tunnel, 50,000 tons; electricity. D. P. Jones, supt.
Coventry Twp Summit (P. O. Akron) Ry. 778.	Summit Bank Coal Co., Cleveland, Ohio, 121 Superior st. Isaac Newton, mgr. Summit, Slope, 20,00 tons; steam, James H. Burt, supt.
Creola Vinton Ry, 181.	John Moreland (local), Cap. 81,500. Tunnel, 800 tons; hand,
Ry, 164, 182,	Star Coal Co., Shawnee, Ohlo, John Baillie, prest, and supt.; James L. Baillie, secy.; A. Garlinger treas.; R. W. Jones, ingr. Cap. stk. \$10,000. Star. Tunnel; horse (developing).
** ************************************	Zanesville Coal Co., Zanesvile, Ohio, 42 N. Fourth st. O. F. McKinney, prest.; F. E. Huggins, secy, J. B. W. Amsden, treas. Cap. stk. \$100,000. Drift; horse, Thomas Opie, supt. developing.
Cumberland Guernsey Ry, 55, 236.	M. B. Hunter. Slope $_{c}$ 500 tons; hand,
Dell Roy Carroll Ry, 173.	8, Allen's Sons, Cleveland, Ohio, 11 Bratenahl Block. Empire No. 3. Tunnel; horse. E. M. White, supt
	Monarch Coal Co., Canton, Ohio, McKinley Block, Mrs. Mary Allen, prest.; J. A. Wann, seey, and treas.; F. Ruchtl, mgr. Cap. 8tk, 845,600. Monarch. Tunnel, 40,000 tons; steam. Schastian Shane supt.
*	C. M. Totten (local). Open pit; horse (developing).
DillonMuskingum Ry, 182.	Weaver, Getz & Co., Chicago, Ill., 217 Dearborn St. Franklin. Slope, 150,000 tons; horse, W. E. Reeder supt.
Dillonvale . Jefferson Ry, 809.	and treas. Cap. stk. \$1,000,000. Dillon. Tunnel, 155,000 tons, horse. George Atherton, supt.
Don Belmont Ry, Martin's Ferry 583, 568,	August Henschel. Open pit, 3,000 tons; horse,
Doylestown . Wayne Ry, 42, 563.	Seiberling, Miller & Co. (local). California. Drlft, 3,000 tons., horse. Jacob Santrock, supt.
E. Fairfield "Columbiana Ry, New Waterford 563.	Wm. Moore (local). Moore. Shaft, 1,500 tons; horse,
E. Liverpool Columbiana Ry, 583, 563,	Faulk Bros. (local). Cap. 84,000. Dry Run. Tunnel, 400 tons.
E. Palestine Commbiana Ry, 563.	East Palestine Coal Co. A. Hicks, prest., A. W. Hicks, treas.; James Sutherin, mgr. and supt. Capstk, \$14,000. Carbon Hill. Drift, 75,000 tons; horse.
	John Jones (local). Chamberlin. Open pit, 720 tons; horse.
**	State Line Coal Co. James Mullins, mgr. Cap. stk, 830,000.
Elko, Vinton P. O. and Ry. Vinton	James Sutherin, Prospect Hill, Slope, 60,000 tons; steam, George D, Sutherin, supt, Madeira Coal Co., Chillicothe, Ohio, Madeira, Shaft; steam, John Hall, supt,
Station 43. Fairpoint Belmont By, 502.	D. R. Bently (local). 360 tons.
	Joseph Baily (local). Open pit, 50 tons.
Ry. 171.	Flushing Coal Co. Theo, S. Faxton, prest, and mgr.; Isaae D. Faxton, seey, and treas. Cap. stk. \$200,000 Tunnel, 100,000 tons; compressed air. W. G. Williams, supt.
***	Moses Stiff (local), Tunnel, so) tons; horse,
	Randel & Co. Cap. \$2,000. Flushing. Slope, 14,000 tons; horse, washer.
	Columbus Coal & Mining Co., 334 N. High st. F. N. Barnes, prest, treas, and mgr. C. F. Barnes, seeger, Cap. stk. \$75,000. Franklin. Tunnel, 24,837 tons; horse. F. Barnes, supt.
Frazeysburg, Muskingum Ry, 584.	T. J. Buchanan [local]. Frazeysburg. Open pit, 2,454 tons; hand,
Glen Ebon, Athens Ry, 181,	Chicago & Ohio Coal & Car Co., Chicago, Ill., 1016 Chamber of Commerce Bldg. 8, H. Graves, prest F. C. Elliott, seey, and treas., E. M. Lace, mgr. Cap. 8tk, \$430,600. Glen Ebon. Slope, 100,000 four- steam. Thomas N. Black, supt.
Glen Roy Jackson Ry, 156, 535,	Ada Coal Co., 1ra A. Sternberger, prest, and gen, mgr.; E. E. Dwight, vprest.; M. D. Jones, seey, and treas. Cap. 8tk, 850,000. Ada. Shaft, 50,000 tons; steam.
	Jones & Morgan, Cap. 8tk, \$25,000. Slope, 21,494 tons; steam. D. L. Jones, supt.
	Northern Coal Co. M. E. Morgan, seey.; Moses Morgan, treas.; D. C. Jones, mgr. Cap. 8tk, \$30,00 Northern. Shaft, 27,800 tons; steam. John M. Morgan, supt.
**	Standard Coal Co. M. E. Morgan, seey.; Moses Morgan, treas.; D. C. Jones, mgr. Cap. 8tk, \$25,088 Standard. Shaft, 12,575 tons; steam. D. L. Jones, supt.
Glouster Athens Ry, 344, 765.	Sedalia Coal Co., A. L. Hart, seey, and treas.; Wm. Palmer, mgr., Cap. 84k, 84,000. Sedalia. Open pit 15,000 tons: steam.
Gore Ry. 181. Hocking	Baird fron Co. (local). F. B. Baird, prest; F. B. McEl Hinnie, seey.; C. R. Baird, treas. Tunnel, 2200 tons; horse.

### COAL BITUMINOUS (CONTINUED)

COAL BITUMINOUS (CONTINUED)		
LOCATION OF MINE,		
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OPPICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTEEDENT.	
Town AND COUNTY.		
Gore Hocking (Continued.)	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bidg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redington, trens.; R. H. Johnson, vprest, and gen. mgr. Nos. 43 and 45. Drift, 12,000 tons; steam, horse. With Furguson, supt.	
Green Mahoning P.O. and Ry, Salem 563.	David Coy (local), Sears. Slope, 3,000 tons; horse,	
	Joseph Whitticar (local). Cap. \$1,000. Drift, 700 tons; horse.	
	Lewis E. Smith. Cap. \$10,000. Summit Hill. Drift, 30,000 tons; horse. Peter Deerolf, supt.	
Guilford Columbiana (P.O. Bucks) Ry. New Lisbon 503, 586.	Nelson Bronson. Cold Run. Slope; horse.	
Hamley Run Athens Ry. 181.	Chicago & Ohio Coal & Car Co., Chicago, Ill., 1046 Chamber of Copumerce Bldg. 8, H. Graves, prest.; F.C. Elliott, seey, and freas.; E.M. Luce, mgr. Cap. 8tk. \$430,000. Hamley Run. Shaff, 100,000 tons; steam. Thomas N. Black, supt.	
Hanging Rock Lawrence Ry, 523, 533,	Means, Kyle & Co. E. B. Willard, prest.; James Bull, secy, and treas.; Hugh Shields, mgr. and supt. Cap. stk. \$500,000. New Castle. Tunnel, 50,000 tons; horse.	
Ry. 181.	Keck & Stevenson, Cap. \$3,000. Star No. 2. Tunnel, 2,000 tons; horse, E. W. Keck, supt.	
Hendock,Perry Ry, 182, 344.	Columbus & Shawnee Coal Co., Columbus, Ohio, Clinton Bldg C. G. Kearn, prest, and supt.; C. C. Collins, secy, and treas. Cap. stk. \$15,000. Hemlock. Slope, 77,000 tons; steam.	
Henking Gallia Ry, Cheshire 181, 344, 533,		
Par. 765	Courtright, Kistler & Co., Columbus, Ohlo, Rooms 3 to 7 Clinton Bldg. Shaft, 249,000 tons: steam. D. C. Thomas, supt.	
Hopewell Muskingum Ry, Zanesville, 42, 55, 164, 169, 173, 182, 834.	Frank Dick (local). Tunnel, 1,600 tons; hand.	
"	S. R. Porter (local). Cap. \$8,000. Tunnel, 700 tons; hand.	
Howenstine Stark Ry. 778.	Radgway Burton Co., Massillon, Ohio. J. P. Burton, prest, and treas.; D. Johns, secy. Cap. stk. \$39,000, Willow Spring. Slope, 23,900 tons; horse. Edward Jones, supt.	
Ry, 383, 503,	P. Jacob & Son, Youngstown, Ohio, P. O. Box 272. Jacob. Shaft; steam. Orrin Jacob, supt.	
Irondale Jefferson Ry, 563.	Wm, Lacey, Cleveland, Oliio, 77 and 79 River st. Cap. \$100,000. Lacey. Open pit, 12,000 tons; steam; breaker.	
Ironton, Lawrence Ry, 156, 329, 523, 533.	Belfont Iron Works Co. John G. Peebles, prest.; S. G. Gilfillan, secy, and treas.; B. H. Burr, vprest, and gen, mgr. Cap. stk. \$625,000. Belford. Tunnel, 36,000 tons; horse. John W. Farmer, supt.	
	Joe Gillen. Tunnel, 5,000 tons; hand.	
**	James Allen Richey, 307 S. Third st. Cap. \$5,000 (local). Tunnel, 10,000 tons; hand.	
Jackson Jackson	W. F. Willson, 44 W. Fifth 8t. Cap. \$4,000 (lowed). Tunnel, 6ft tons; hand. Chapman Coal Co. H. L. Chapman, prest, and mgr.; C. J. Benton, seey. Cap. 8tk, \$100,000. Grace, Chapman, Springfield and 3 others. Slope, shaft, tunnel, 125,000 (tons; steam, John E. Hayes, supt.	
Ry, 43, 535.	Emma Coal Co. Ed. H. Zurhees, prest.: Edwin Jones, treas., mgr. and supt. Cap. stk. \$50,000. Emma. Shaft, 30,000 tons; horse.	
**	Globe Iron Co. Eben Jones, prest.; J. E. Jones, seey.; Elias Crandall, gen, mgr.; L. T. Murfin, mgr. Cap. stk. \$73,000, Globe, Huron, Shaft, 50,000 tons; hand.	
	Gosline & Barlow, Toledo, Ohio, 422 Madison st. Price, Slope, 40,000 tons; horse, W. H. Owens, supt.	
	Jackson Hill Coal Co. Ed. H. Zurhorst, prest.; W. E. Keenan, seey.; Edwin Jones, treas, and mgr. Cap. stk. \$50,000. Jackson Hill. Draft, 21,600 tons; horse. John D. Richards, supt.	
	McKitterick Bros. Cap. \$15,000. Slope, 15,000 tons; steam. James Harper, supt.	
44	Ohio Coal Co. Ira A. Sternberger, prest, and mgr.; H. S. Willard, seey, and treas. Cap. 8tk, \$20,000. Ohio, Slope, 30,000 tons; steam, N. M. White, supt.	
.* "	Price Bros. Cap. \$5,000. Drift, 4,000 tons; horse. J. E. Price, supt.	
49	J. N. Smipson. Cap. \$1,500. Open pit, 50,000 tons; hand.	
	Star Furnace Co. B. Kahn, prest.; Charles O. Brown, secy.; L. V. Brown, ingr. Cap. stk, \$60,000. Star No. 2. Shaft, 25,000 tons: steam, compressed air. Henry Price, supt.	
Jeddo . Jefferson Ry, 175.	D. O. Findley (local), Tunnel, 6,250 tons.	
W	D. A. Moreland docab. Open pit, 400 tons; hand.	
Jordon , Jackson Ry,Wellston 43, 156, 535.	and treas. Cap. 8tk. \$500,000. No. 9. Tunnel, 39,000 tons; horse. R. D. Thomas, supt.	
	John Green. Cap. \$2,000 (local). Timnel, 890 tons; hand.	
	Jerome Rowe (local). Tunnel, 320 tons; hand.	
Kittaning Hocking Ry, Starr 181.	Raccoon Coal Co. L. A. Culver, prest, and treas.; G. C. Weitzell, seey., mgr.; n l supt. Cap. stk. \$200,000. Raccoon. Tunnel. 54,030 tons; steam, horse.	

# COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kinn of Mine, Anneal Outfut in Tons of 2,000 Pouxds, Kind of Power Used, Coal Breakers, Washers, Code Overs, and Name of Mike Suppeningender.
TOWN AND COUNTY.	
Ry, 778.	C. H. Gregg   local). Gregg. Shaft; horse developing).
Lathrop Athens Ry, 766,	Black Diamond Coal, & Coke Co., Columbus, Ohio, Board of Trade Bidg. Robert W. Gilbert, prest.; Mitton Hopkins, seey.; J. H. Earnshaw, treas, and lagr. Cap. 8tk, \$50,000. Black Diamond, Tunnel; electricity; breaker, 5a eoko ovens, capacity 15,000 tons (developing). James Fox, squt.
	McKinney Coal & Coke Co., Zanesville, Ohio, 42 N. Fourth st. O. F. McKinney, prest, and mgr.: F. E. Huggins, sery, and trens. Cap. stk. \$100,000. Slope; steam (developing). Thomas Opic, supt.
Laurelton Jefferson Ry, Portland Station 563,	Wheeling, Lake Eric & Pittsburg Coal Co., Toledo, Ohio. W. R. Woodford, prest.; Downer Adams, seey, and treas. Cap. stk. \$1,000,000. Laurelton. Tunnel, 150,000 tons; horse. George Atherton, supt.
	$\label{eq:mcCreary & Moore (local)} MeCreary & Moore (local). & Ball. & Open pit, 4.379 tons; hand. & G. U. McCreary, supt.$
44	A. Preston (local). Open pit, 600 tons, hand,
Longstreth Hocking Ry, 181.	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Ridg. J. O. Moss, prest.; S. A., McManigal, seey.; W. J. Redlington, trens.; R. H. Johnson, vprest, and gen, mgr. No. 19. Drift, 60,000 tons; steam, electricity. Vinf. Furguson, supt.
Lyonsdale Perry Ry, 164.	M. Meenau, Cap. \$10,000. Lyonsdale. Tunnel, 30,000 tons; horse,
McArthur . Vinton Ry, 181.	Benjamin Newlan (local). Tunnel, 172 tons; horse.
	Crawford, Gaver Bros. & Co. Cap. 84,000. Eagle. Tunnel; horse (developing). Wm. Gaver, supt.
	J. H. Jones. Cap. \$15,000. Beech Grove. Tunnel, 35,749 fons; horse. George Savage, supt.
Malvern . Carroll Ry, 175.	Phoenix Fire Clay Co. C. A. Weaver, prest.; R. Roberts, seey, and treas.; Samuel Hodkinson, mgr. Cap. stk. \$75,000. Phoenix. Slope, 4,500 tons; hand.
Manchester Sumult (P.O.Akron) Ry.Clinton 169, 42, 563, 593.	Brewster Coal Co., Akron, Ohio, 900 S. Main St. Alexander Brewster, prest., A. K. Brewster, seey, and treas., A. A. Brewster, ngr. Cap., 80, \$100,000, Turkeyfoot, Shaft, 50,000 tons; sleam, John F. Mearcham, supt.
Martins Ferry Belmont Ry, 171, 175.	Gaylord Coal Co., G. Edwards: prest., Theodore Snodgrass, seey, and treas., Jonah Lewis, mgr., Cap., 8tk, \$20,000. Open plt.
	Howells Coal Co. Anthony Howells, prest, and mgr.; John C. Albright, seey.; J. D. Wetter, treas. Cap. stk, \$60,000. Anderson. Shaft, 40,000 lons, steam. Evan J. Evans, supt.
**	E. G. Krause & Co., cor. Sheriff and Prospect sts., West Massillon. Shatt, 50,000 tons, steam.
**	Massillon Pigeon Run Coal Co. A. Howells, prest, and mgr.; E. S. Howells, secy., J. D. Wetter, treas, Cap. stk. \$200,000. Pigeon Run. Shaft, 55,00 (ons; steam. A. H. Owens, supt.
44	John Moore, Bridgeport, Tunnel, r.450 tons; hand,
6	1 pper Pigeon Run Coal Co. W. K. L. Warwick, prest, and treas.; Reinhard Keller, seey., mgr. and supl. Cap. stk, 800,000. Upper Pigeon Run. Shaft; steam (developing).
	Warwick Coal Co. Reinhard Keller, prest., mgr. and supt., W. K. L. Warwick, seey, and treas. Cap. stk. \$100,000. Warwick. Shaft: steam developing).
	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio, Cherry et, W. R. Woodford, prest. Downer Adams, seey, and Ireas. Cap. stk. 81,000,000, Forrest. Shatt, 27,396 tons; horse. R. H. Wainwright, supl.
Middleport, Meigs Ry, 181, 344, 533.	Michael & Edwards (local). Diamond. Tunnel; horse.
"	Silver Run Coal Co. Silver Run. Drift, (2,000 tons; horse, A. Hysell, supt.
Millersburg Holmes Ry, 169.	Bilderback Bros. (local). McElroy. Tunnel, 500 tons; hand.
**	Cary & Umson (local). Slope, 10,000 tons.
to	John Chevalard, Cap. 810,000. Dr.tt., horse.
**	John Craft & Co. + ap. \$5,000. Open pit; hand.
** .	John Horn, Tunnel, 1,000 tons; hand,
41	E. B. Skelly. Open pit, t,350 tons; hand.
Mineral Point Tuscarawas Ry, 175, 778.	Brick Bros. Cap. \$1,500. Tunnel and slope, 24,000 tons, steam. John Brick, supt.
	Edward Holden, Cap. \$50,000. Shaft, 15,000 tons; horse. Thomas Osborne, supt.
	Ohlo Coal Mining Co., Akron, Ohio, F. A. Seiberling, prest.; L. C. M'les, seey, and treas., T. W. McCne, mgr. Cap., 83,000. Mmeral Ridge, Clover Dell, Acme. Tunnel (developing). George J. Mark-ley, sup.
14	Ridgway Burton Co., Massillon, Ohio, J. P. Burton, prest, and treas.; D. Johns, seey. Cap. stk. §50,000, Huff Run. Slope, 36,200 tons; horse, J. J. Klein, supt.
Mineral Ridge, Trumbull Ry, 503.	William Powers (local). Langan. Slope, 300 tons; horse.
	Ell Roush (local). Eureka. Open pit; horse.
41 14	John J. Williams (local). Tunnel, 2,000 tons; hand.

Minerva . . . . . Stark J. W. Shaw, Cap. 8500. Rustic Mountain. Tannel, 480 tons; hand, horse, John Mills, sapt. Ry, 173, 175, 376.

(23)

LOCATION OF MINE,

### COAL BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONO OF 2,000 FOUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, OCES OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Monday Hocking Ry, 181,	Somers, Coal, Co., Columbus, Ohio, 11, E., Town st., A., Brenholts, prest.; James, O., Somers, seey, and treas, Cap, stk, \$90,000. Monday. Drift, 80,000 tons; horse, F. Williams, supt.
Mt. Pleasant Jefferson Ry, 809.	Wheeling, Lake Erie & Pittsburg Coal Co., Toledo, Ohio. W. R. Woodford, prest.; Downer Adams, seey, and treas. Cap. stk. \$1,000,000. Long Run. Tunnel, 155,000 tons; horse. George Atherton, supt.
Murray Hocking Ry. 181.	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redington, treas.; R. H. Johnson, vprest, and gen, mgr. Nos. 39 and 41. Drift, 40,000 fons; steam, horse. Vint. Fraguson, sup.
44	Greendale Furnace Co., Columbus, Ohio, V. M. C. A. Bidg. J. A. Long, prest.; H. F. Holloway, secy, and treas.; C. H. Boardman, nigr. Cap. 8tk, \$25,000. Murray City. Slope, 200,000 tons; steam. John Hopkins, supt.
Navarre Stark Ry, 173, 171, 809.	Levi Hair, Tunnel, 240 tons; hand.
*	Ridgway Burton Co., Massillon, Ohlo, J. P. Burton, prest, and treas.; D. Johns, seey. Cap. stk. \$30,000. South Massillon. Shaft, 30,500 tons; steam. Wm. Hardgrove, supt.
Neffs Siding Belmont (P. O. Shields) Ry. 42.	George Neff (local). Cap. \$1,000. Open pit, 40 tons; hand.
	Sutherns Mining Co. A. H. Davis, prest.; James Sutherns, freas., mgr. and supt. Cap. stk. \$10,000, Pleasant Valley. Drift, 75,000 tons; horse.
Nelsonville Athens Ry, 181.	mgr. Cap. stk. \$35,000. Buckeye. Tunnel, 75,000 tons; norse. John Gmitty, supt.
**	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redingion, treas; R. H. Johnson, vprest, and gen. mgr. Nos. 15, 17, 27, 29. Drift, 180,000 tons; steam, electricity.
	Hocking Valley Coal Co., Columbus, Ohio, 44 E. Broad st. E. A. Cole, gen. mgr. Cap. stk. \$200,000, Minkes Run, Hawkes. Tunnel, 200,000 tons; steam, compressed air.
	Johnson Hill Coal Co. Wm. Myers, prest.; Frank W. Poston, secy.; John W. Bennett, treas.; Wm. Dalrymple, mgr. and supt. Cap. stk. \$9,000. Johnson Hill. Slope, 30,000 tons; horse.
44	J. M. Lama. Cap. \$6,000. Tunnel, 15,000 tons; hand.
	Last Run Coal Co. James Dew, prest,; Charles F, Myers, seey.; C.H. Doan, treas.; Joseph Slater, vprest, and gen. mgr. Cap. stk. \$30,000. Last Run. Drift; electricity (developing). Wm. G. Halbert, supt.
** .	Nelsonville Sewer Pipe Co. (local). James Dew, prest.; C. H. Doan, seey, and treas. Cap. stk, \$25,000. Steam.
46	C. L. Poston & Co. Cap. 8tk. \$100,000. C. L. Poston, mgr. Green Brier. Drift, 150,000 tons; steam. Cal. Mellinger, supt.
. 44	Springfield Coal & Ice Co., Springfield, Ohio, 93 S. Limestone st. E. S. Kelly, prest.; F. W. Ludlow, seey.; H. Voges, mgr. Cap. stk. \$50,000. Springfield. Tunnel, 25,000 tons; horse. Thomas Jones, smpt.
New Albany Mahoning (P. O. Salem) Ry. Co- lumbus 42, 169, 176, 181, 182, 523, 585, 765.	George Godward & Sons (local). Tannel, 3,680 tons; horse.
	Clayfon Hall (local). Cap. \$2,000. New Berlin. Slope, 740 tons; horse,
	Richard Warburton (local). Graham. Open pit, 700 tons; hand.
New Comerstown Tuscarawas Ry. 174, 584.	Thomas Langhead. Tunnel, 250 tons; horse.
	Wm. Sommerville (local). Cap. \$8,000. Slope, 1,800 tons.
	D. E. Davis, Cap. \$1,000. Drift, 1,000 tons; hand.
и н	Wales, Hammon & Collat. Nugent. Tunnel, 1,689 fons; hand. W. J. Ruddock, supt.
New Lisbon Columbiana Ry, 503, 586.	Edward Broughton (local). Cap. \$1,000. Tunnel, 1,500 tons; hand.
. 44	P. March & Son, Cap. \$6,000. March. Tunnel, 4,100 tons; hand, H. A. March, supt.
**	Sterling Mining Co., N. F. Wood, prest,; H. D. Hileman, secy.; W. H. Warner, treas, and mgr. Cap. stk. \$10,000. Central Mine. Slope, 15,000 tons; steam. Jos. Farmer, supt.
New Philadelphia Tuscarawas	Goshen Coal Co., Cleveland, Ohio. 233 Superior st. J. A. Beidler, prest, and treas.; A. W. Brown, seey. Cap. stk. \$100,000. Goshen. Drift, 100,000 tons; steam. C. J. Brokenshire, supt.
Ry, 171, 175.	G. W. Mathias, Cap. \$15,000. Slope, 2,000 tons; horse, hand. Ed. Mathias, supt.
·	H. S. Odbert & Co., Cleveland, Ohio, Western Reserve Bldg, Cap. stk. \$50,000, Odbert, Drift, 225,000 tons; steam, John Price, supt.
New PittsburgHocking (P. O. Blatchford) Ry. 181.	

New Straitsville ...Perry Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bidg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Redington, trens.; R. H. Johnson, v-prest and gen, mgr. Rock Run, No. 5, 7, 3, 11, 3, 47, 34. [141, 34, 7, 34. [141, 34, 7, 34. [141]]

Ohio Coal Co., Columbus, Ohio, Board of Trade Bldg. Black Diamond. Drift, 50,500 tons; horse. David Wiams, supt.

	COAL BITUMINOUS-(CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY	Name and Kind of Mine, annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
North IndustryStark	k Wade Coal Co., Cleveland, Ohio, 11 Bratenali Block, 41, D. Dennis, prest.; John C. Allen, seey, an treas, Cap. stk, 87,590. Wade. Tunnel; horse, James Perkins, supt.
North Lawrence Stark Ry, Lawrence 563.	7 James Mullins& Sons, Wooster, Ohio. Cap. \$50,000. Minglewood Nos. 1 and 2. Slope, shaft, 75,000 ton steam. T. H. Elser, supt.
	- Ridgway Burton Co., J. P. Burton, prest, and treas.; D. Johns, seey. Cap. 8tk. \$30,000. Palermo. Shaf 41,000 tons; steam. John Hodgson, supt.
North Lima . Mahoning Ry, 156.	Adam Little and others (local). Spaidville. Shaft, 850 tons; horse,
	Daniel Little & Son (local), Cap. \$3,000. Shaft, 800 tons; steam.
	Solomon Paulin (local), Open pit, 1,000 tons; horse,
Oakdafe , Athens Ry, 182,	8 Somers Coal Co., Columbus, Ohio, 11 E. Town st. A. Brenholts, prest.; James O. Somers, seey, and trea Cap. 8tk, \$00,000. Sunday Creek. Shaft, 50,000 tons; steam. F. Williams, supt.
Dak Hill. Jackson Ry, 43.	Etna Fire Brick & Coal Co. John D. Davies, prest.; Elias Morgan, secy.; J. J. Jones, treas, and mg Cap. 8tk, \$21,000. Efna, Slope, 2,800 tons; hand.
Olive Furnace. Lawrence Ry, 156.	McGugin & Co. (local). Olive Furnace. Tunnel, 1,000 tons. W. H. McGugin, supt.
Orbiston Hocking Ry, 181.	Raybould Coal Co., Columbus, Ohio, 47/49 Clinfon Eldg. Samuel Raybould, prest, and mgr.; Frank J. Frendergest, seey.; D. C. Postle, trens. Cap. 848, \$10,000. Slope; steam, electricity (developing). Wn Raybould, supt.
)snaburg Stark Ry, 173.	dohn Carruthers (local). Miller's. Drift, 1,200 tons.
Palmyra Portage Ry, 376.	• Hutson Coal Co., Cleveland, Ohio, Room 50 Willshire Bidg. H. D. Hutson, prest, and mgr.; H. D. Marbl sery, and treas. Cap. 8tk. \$25,000. Nos. 1 and 2. Shafts, 30,000 tons; steam. Thos. J. Williams, sup
10 m	Palmyra Coal Co., Youngstown, Ohlo, 114 N. Market st. Henry Wick, prest., Wilford P. Ames, seey treas, and mgr. A and B. Shaft, 50,000 tons; steam. H. B. Evans, supt.
PetersburgCarrol (P.O.Algonqulm)Ry,523	l Charles W. Lewis, Allen, Slope; horse (developing),
Pike Stark P. O. and Ry. North Industry 778.	K. Wm. Slutz (local). Open pit, 100 tons, hand.

Point Pleasant., Guerusey - Cisco Mining Co., Cleveland, Ohio, Western Reserve Bldg. W. R. Huntington, prest.; N. H. Foote, seey. (P. O. name bysons) - and treas.; H. S. Odbert, mgr. Cap. stk. \$25,000. Cisco. Shaft, 50,000 fours; steam. John Price, supt.

Ry, 174, 236. Pomeroy.. Ry. 181.

... Meigs Coal Ridge Saft Co. M. B. Wells, prest., John M. Davis, seey.; J. W. Thomas, mgr. Cap. stk. \$25,000, Coal Ridge, Tunnel, 14,468 tons, horse, Daniel W. Daniels, supt.

B. Kochler (local). Cap. \$2,000. Excelsior. Tunnel, 8,800 tons; horse. Dan Diehl, supt.

Peacock Coal Co. N. Bengal, prest.; Fred Ebersbach, seev, and treas.; Martin Ebersbach, mgr. Cap. stk. \$25,000. Peacock. Slope, 100,000 tons; horse. Wm. Ebersbach, supt. Powhatan Point, Belmont John E. Schnegg & Bros. (local). Cap. \$2,000. Schnegg, Shaft, 380 tons; steam.

Quaker City.... Guernsey Alex, Cochran. Cap. \$20,000. Tunnel, 75,000 tons, horse,

Riverton.

.. Vinton John Blore. Blore, Tunnel, soutons; hand, H. C. Booth, supt.

Radelift Ry, 181, Redfield

Perry Cohmbus & Eastern Coal Co., Columbus, Ohio, J. F. Harris, prest.; S. J. Flickenger, secy., James Cochran, treas.; C. A. Dean, mgr. and supt. Cap. stk, \$450,000. Drift, 17,000 tons; horse.

James Coyle & Son. Cap. \$5,000. Chestnut Grove. Drift, 12,000 tons; horse. G. W. Coyle, supt.

Crafty Coal Co., Columbus, Ohio, Cap. stk. \$20,000. Wallace. Drift, 25,000 tons; horse. Wm. Wallace,

Davis Mining Co. B. J. Davis, prest, and supt.: D. J. Williams, seey, and treas., John M. Taylor, mgr. Cap. stk, \$4,000. Davis. Open pit, 25,000 tons; horse.

Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N, High st. D, Mathews, prest.; Charles Ratzel, seey, and treas. Cap. 8tk, \$100,000. Union No. 1. Open pit, 40,000 tons; horse. John Koppis, supt. Wallace Coal Co., Columbus, Ohio. John B. Hamilton, prest.; Joseph Cratty, seey, and treas.; Wm. Wallace, mgr. and supt. Cap. stk. \$20,000. Wallace. Shaft, 40,000 (ons; horse.

Rendville . Perry

W. P. Rend & Co., Chicago, Ill., 152 Madison St. Sunday Creek No. 3. Shaft, slopes; steam, James McLaughlin, supt. Jackson Riverton Coal Co. F. A. Hockett, prest, and ngr.: J. E. Gimperling jr., seey, and treas. Cap. 8tk. \$5,000, 8,156,535. Riverton, Tunnel: steam. J. J. Donahue, supt.

Ry. Wellston 43, 156, 535, Rogers .... Columbiana Ry, 586,

Quaker Valley Mining Co., Vonngstown, Ohio, 17 Public Square. Ralph J. Wick, prest.; M. C. McNabb, seey.; N. F. Wood, treas.; J. M. Walter, mgr. Quaker. Drift, 35,000 tons; horse. James Thompson seey.; N. sr., supt.

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mine, ..., Muskingum Diamond Coal Co., Conesville, Ohio, Cap., \$6,000. Diamond, Tunnel, drift, 30,000 tons; horse, David (P.O. Carlwick) Hy.55, Davis, supt. O. F. McKinney, Zanesville, Ohio, 42 N. Fourth st. Oak Grove. Drift, 50,000 tons; horse and hand. H. N. Houk, supt.

Roscoe: Coshocton Ry, Coshocton 173, 584.

Coshocton James H. Gillen (local). Treadway. Drift, 880 tons; hand,

Roseville Ry. 164.

. Perry Standard Coal Co., Columbus, Ohio, 26 Wesley Block, 101 N, High st. D, Mathews, prest.; Charles Ratzel, seey, and treas. Cap. 8tk. \$100,000. Standard No. 2. Open pit, 80,000 tons; horse, T, C, Hilliards, supt.

# COAL-BITUMINOUS (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMEANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 1,000 FOUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPPRINTERDENT.
TOWN AND COUNTY.	
St. Clairsville , Relmont Ry, 42, 471, 699.	Black Diamond Coal Co. C. Troll Sons, proprietors. Cap. \$50,000. Black Diamond, 100,000 tons; horse hand.
	Ohio & West Virginia Coal Co. C. Troll Sons, proprietors. Cap. 850,000. Ohio and West Virginia, 100,00 tons; horse, hand.
Salem Columbiana Ry, 585.	Homer Dunn (local). Dunn. Slope, 6,000 tons; horse.
	Howells & Ashmar (local). Cap. 83,000. Greenamyer. Shaft, 3,000 tons; steam. J. K. Ashmar, supt. Sheldon Parker (local). Parker, 300 tons; horse.
41 11	Salem Co. Cap. stk. \$50,000. Slope. Wm. Dunn, supt.
st	Stephen Stone (local). Drift, 900 tons; hand.
Salineville Columbiana Ry, 175.	S. S. Carnahan. Cap. \$8,000. Empire. Open pit, 37,000 tons; steam, horse.
** 1 10 10 10 10 10 10 10	T. P. Francis (local). Slope, 2,000 tons; horse,
** **	H. H. Kirk (local). Drift, 3,000 tons; horse, A. D. Fotheringham, supt.
	Columbus & Hocking Coul & Iron Co., Columbus, Ohio, Board of Trade Bidg. J. O. Moss, prest,; 8, 2 McManigal, seey.; W. J. Redington, treas.; R. H. Johnson, vprest, and gen, mgr. Nos. 21 and 37. Drift 120,000 tons; steam; electricity.
Ry. 55.	J. H. Young, Cap. \$800. Raccoon, Tunnel, 2,000 tons; horse, Levi Vandyne, supt.
SealoverMuskingum (P. O. Philo) Ry, 834, 533.	Zanesville Coal Co., Zanesville, Ohio, 42 N. Fourth st. O. F. McKinney, prest, and mgr.; F. E. Huggin secy; J. B. W. Amsden, treas. Cap. 8tk, \$100,000. Xo. 7. Open pif, 56,600 tons. Thomas Opic, sup
Shawnee	Columbus & Hocking Coal & Iron Co., Columbus, Ohio, Board of Trade Bldg. J. O. Moss, prest.; S. A. McManigal, seey.; W. J. Reddington, treas.; R. H. Johnson, vprest, and gen. mgr. Nos. 31 and 35. Drift 120,000 tons; steam; electricity.
44	Gosline & Barlow, Toledo, Ohio, 422 Madison st. Furnace. Slope, 100,000 tons; steam. J. P. Mereditl supt.
	J. H. Hazelton, Rock Run, Tunnel; horse,
44	New York & Perry Coal & Iron Co., New York City, 2 Wall st. New York. Tunnel, drift, 150,000 ton steam. Samuel W. Butt, supt.
	Shawnee Valley Coal & Iron Co., Newark, Ohio. John C. Hamilton, prest.: L. J. Johnson, seey.; Jame H. Smith, treas.: Thomas Phillipe, mgr. and supt. Drift, 140,000 tons; steam.
	<ol> <li>D. Turney &amp; Co., Columbus, Ohio. H. D. Turney, prest.; T. W. Guthrie, secy.; G. S. Beeson, treas Thomas Cocoran, mgr. and supt. Cap. stk. \$250,000. XX. Drift, \$00,000 tons; hand.</li> </ol>
14 17	Upson Coal Co. Upson. Tunnel, 125,000 tons; hand, horse, steam, electricity. R. E. Williams, supt.
Sherodsville, Carroll Ry, 173, 809.	Fuller Coal Co., Toledo, Ohio. D. W. Fuller, prest.; James McClean, seey, and treas. Nos. 2 and 3. Tu-nel, 125,000 fons; steam, horse. R. H. Wainwright, supt.
" "	Somers & Wainwright, Cleveland, Ohio, 8 Euclid av. Cap. \$25,000. No. 4. Slope, 5,200 tons; steam. Fran Melantosh, sapt. No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Smith Mahoning (P. O. Beloit) Ry, 156. Steubenville, Jefferson	
Ry, 175, 584, 809,	Cap, stk. \$50,000. Bustard. Shaft, 43,136 tons; steam. John Keitty, Supt.
	Steubenville Coal Mining Co. R. Sherrard jr., prest,: George W. McCook, seey, and treas,: Win. Smirt waite, mgr, and supt. Cap. 8tk, 850,000. Shaft, 66,000 fons; Steam; 6 coke ovens, capacity 1,000 fons. H. L. Wilson (local). Cap. 85,000. Wilson. Open pit, 5,000 fons; horse.
Stewartsville. Belmont Ry, Franklin 42.	
	Owen Meehan. Cap. \$30,000. Franklin. Tunnel, 65,000 tons; horse. W. T. Smith, supt.
Syracuse, Meigs Ry, 533,	The state of the s
	W. L. Thomas & Son. Cap. stk. \$12,000. Fairview. Shaft, 5,000 tons; steam. W. L. Thomas, supt.
Ry, Oak Hill 43, 763.	D. D. Morgan (local). Open pit, 500 tons; hand.
	Crescent Coal Co., Columbus, Ohio, Board of Trade Bidg, L. R. Doty, prest.; A. O. Manck, seey, ar Treas, Cap. 8tk, \$100,000, Crescent. Shaft, 200,000 fours electricity; steam. S. F. Knox, supt.
Ry, 584.	<ul> <li>A. Herning, Cap. \$4,000. Diamond, Tunnel, 625 tons; horse, J. M. Herning, supt.</li> <li>Nicholas Hert, Cap. \$12,000. Mineral Ridge. Open pit, 20,000 tons; horse, A. Stuber, supt.</li> </ul>
**	C. P. Minnich. Cap. \$10,000. Mt. Carbon. Tunnel, 10,000 tons, hand. Benner Minnich, supt.
Uhrichsville Tuscarawas Ry, 171, 584.	Duamond Fire Clay Co. James Ball, prest.; J. M. Cooper, seey., treas, and mgr. Cap. stk. \$25,000. D mond. Tunnel, 7,000 fons; horse, George Ross, supt.
	D. Dunlavey (local). Drift, 1,000 tons; hand.
	John W. Fetter (local.) Cap. \$1,000. Fetter. Open pit, 650 tons; hand.

Ebenezer H. Gowin (local). Fruit Hill. Open pit; hand.

### COAL-BITUMINOUS-(CONTINUED)

LUCA	TION OF	MINE,
		R ROUTES
AND S	HIPPING	POINT.
Town	AND	COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

	SHIPPING		
Town	AND	COUNTY.	

Uhrichsville, Tuscarawas Jacob Huston (local), Cap, \$5,000. Huston, Open pit, 550 tons; horse, (Continued.)

John M. Smith (local). Scott. Drift, 1,440 tons; horse,

Uhrichsville Fire Clay Co., W. B. Thompson, prest.; T. J. Evans, secy.; George Beck, treas. Cap. stk. 80,000. Slope, 8,000 tons.

Utley Ry, 766,

Athens Federal leral Valley Coal Co., New York, N. V., 41 Deyst, Clarence Stephens, prest., Samuel Snow, seey.; Melvin Stephens, treas. Coap. stk. \$1,000,000. Federal Creek No. 2. Tunnel, 30,000 tons; horse; breaker, washer, 125 coke ovens, capacity 5,000 tons. V. W. Musgrave, sup.

Vienna Ry, 506. Wadsworth Ry, 503, .Medina

Trumbull Home Block Coal Co., Youngstown, Ohio. Late Hornlebecl, prest.; James Davis, seey, and treas.; John Brunswick, mgr. and supt. Cap. 8th, 81,000. Slope, steam (developing). Akron Coal Co., Akron, Ohlo, 112 S. Howard, St., H. E., Loomis, prest, and mgr.; James P. Loomis, seey-and treas. Cap. 8tk, 850,000. Stony Ridge. Slope, 60,000 lons; steam, V. Gerstenchlager, supt.

d & Barrett Coal Co., Cleveland, Ohio, 44 Euclid av. Cap. \$39,000, No. 1, Eldorado. Slope, shaft, 67,474 tons; steam. O. V. Dibble, supt.

W. B. Coleman, Rasor Slope, 7,000 tons; steam, J. Jordan, supt.

Excelsior Mining Co. John J. Wagon, prest, and treas, C. F. Wagon, seey, and mgr. Cap. 8tk, \$50,000. Excelsior. Slope, 100,000 tons; steam. Wm. Lydiard, supt.

Wakeup Athens J. R. Wickham. Slope, 300 tons; horse. Ry. Broadwell 766.

Washingtonville Columbiana Rv. 503.

Cherry Valley Iron Works, J. H. King, prest.; S. E. Welker, seey.; C. M. Schmick, treas. Cap. 8tk, \$250,000. Cherry Valley. Slope, 120,000 fons; steam.

Fair View Mining Co., Voungstown, Onio, 114 N. Market st. W. H. Warner, prest.; Wilford P. Ames, seey., treas, and nogr. Cap. stk. \$5,000. Fair View. Slope, 30,000 tons; steam. John Illeman, supt. Walter & Ferris Coal Co., Youngstown, Ohio, 17 Public Square, J. M. Ferris, prest, and treas.; J. H. Streeter, seey., J. M. Walter, mgr. Drift, 600,000 tons; steam, horse, James Thompson Sr., mgr.

Stark George Minser local). Cap. \$900. Baum. Slope, 1,000 tons; steam.

Ry. 175, Wellston

Waynesburg

Ry, 42, 156, 545. Comet Coal Co., Dayton, Ohio, 164 Wayne av. W. W. W. Whitmore, prest,; J. D. Whitmore, seey., treas, and mgr. (ap. stk. St00,000, indiv. cap. \$48,000. Comet. Shaft, 36,000 tons, steam. Peter Gallagher, supt.

Eliza Coal ( o., Dayton, Ohio, 285 S, Lincoln St., S, J, Patterson, prest.; G, O, Richardson, seey.; D, Armstrong, treas.; John James, nigr. Cap. 8tk. 850,000. Eliza. Shaft, 50,000 tons; steam.

Flithart Coal & Mining Co. L. B. Royd, prest.; A. T. Holcomb, seey.; John JARoberts, treas.; Theo. Flithart, ngr. Cap. 8tk, \$200,000. Shaft, 190,000 toris; steam. Southern Ohio Coal & Iron Co., Dayton, Ohio, 302 E. Third st. A. A. Thomas, prest.; W. L. Caten, secy., freas, and mgr. Cap. stk. 8500,050. No. 3. Slope, 100,000 tons; steam. Allen Stifl, supt.

M. S. Stunberger, prest., H. S. Willard, seey, and mgr. Cap. stk, \$400,000 Shaft; Wainwright Coal Co. R. H. Wainwright, prest.; D. J. Harry, mgr. and supt. Cap. stk. \$75,000. Wainwright. Shaft, 150,000 tons; steam.

Columbiana C. B. Weaver (local). Cap. \$5,000. Tunnel, 10,000 tons; hand. A. L. Weaver, supt. Wellsville

Western Star Ry, Akron 42, 169, 503, 582, 592, 778.

D. P. Davis (local). Slope, 2,000 tons; horse,

W. Lafayette

Coshocton Benj, C. Williams Jocal). Burts Run. Tunne!, 4,000 tons; hand.

Yorkville Ry, 175. Voungstown Mahoni Ry, 383, 508, 563, 592, Mahoning

Jefferson Ohio & Pennsylvania Coal Co., Cleveland, Ohio, A. B. Zerbe, prest., A. McGarry, seey. Open plt; horse, W. H. Ewing, supt. Witch Hazel Coa. 144 N. Market st. Henry Wek, prest.; Wilford P. Ames, seey., treas, and mgr. Witch Hazel. Shaft, 49,000 tons; steam. David Jacobs, supt.

Zaleski Ry. 43. Vinton

Zaleski to, W. T. McCuntick, prest.; Amos Smath, seev, and treas.; Robert Thompson, mgr. Cap. stk. \$150,000. Zaleski. Drift, 35,000 tors, horse, T. L. Watkins, supt.

Zanesville Muskingum Ry, 42, 173, 563, 169, 182, 834. James H. Alexander (local). Open pit, 160 tons; hand,

Bridewell & Barton, 265 E. Pike st. Slope, 4,000 tons; hand. George Jones, supt.

J. A. Detenbeck, Cap. \$10,000, Oak View, Tunnel, 4,000 tons; horse. Thomas Toole, supt.

Theo, Dietz (local). Slope, 35 tons

John German (local). Tunnel, 2,000 tons; hand. George German, supt.

Geo. H. Harper (local). Open pit, 1,800 tons; horse,

Thomas Potts, 67 Adams st. (local). Tunnel, 1,500 tons; hand.

Wm. A. Werner, 66 Eighth st. (local). Cap. \$8,000. Tunnel, 14,000 tons; hand. James Foutz, supt. Tuscarawas Wm. R. Jones, Cap. 88,000. Eagle Hill, Tunnel, 11,236 tons; horse,

Ry, 174, 175, 809, Zoar Society (local). Tunnel, 375 tons: hand.

### COAL CANNEL

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MIKE, ANVILA OUTPIT IN TONS OF 2000 POURDIS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVERS, AND NAME OF MINE SUBERINTENDENT.

TOWN AND COUNTY.

Pigeon Run ..... Stark O. Young Coal Co., Cleveland, Ohio, 725 Society Savings Bldg. Cap. stk. 850,000, Camp Creek. Shaft, ky, Massillon 171, 563, 50,000 tons; steam. Joseph Collier, supt.

Warsaw ... Coshocton Ry, 169.

Location of Mine or Bank, Railways, Water Routes, and Shipping Point. Pinkney Cannel Coal Co., Cleveland, Ohio, 505 Western Reserve Bldg. J. B. Zerbe, prest, and treas.; E. E. Barney, secy. Cap. stk. \$50,000. Warsaw. Drift, 40,000 tons; horse. W. G. Jones, supt.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNOAL OUTFUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINFERDENT.

### FIRE CLAY

AND COUNTY Canal Pover, Tuscarawas Bover, Fire Brick Co., Cleveland, Ohio, cor, Bank and Superior sts., C. S. Barrett, prest, and treas.; G. H. Ganson, seey.; P. Arnold, mgr., Cap. stk, §100,000. Barretts, Tunnel, 30,000 tons; hand. Stark Canton Brick Co., H. S. Belden, prest.; J. L. Higley, seey, and treas.; Peter Miller, mgr. Shale clay, Coleman . Columbiana Union Fire Clay and Stone Co. C. Coleman, prest.; C. S. Coleman, secy, and treas.; Wm. Douglas, mgr. Cap. stk. \$10,000. Coleman, Tunnel, 17,000 tons; steam. J. T. Griffiths, supt. Cuyahoga Falls. .Smunit Rv. 169, 592. Camp & Thompson, Cap, \$100,000. Open pit, 18,000 tons; water, steam, State Line Sewer Pipe Co. James Mullins, prest.; Robert F. Taggart, seey, and treas.; Hugh Laughlin, mgr, and supt. Cap. stk. \$50,000. State Line. Slope, 50,000 tons; steam. E Palestine Columbiana Ry. 563. Congo Fire Clay Co. B. U. Wilkinson, prest, and mgr.; Thos. Wilkinson, secy, and treas. Cap. stk. \$30,000. Congo. Slope, \$00,000 tons. Empire Jefferson Ry, 175. \*\* .... Minor Fire Clay Co. Tunnel, 8,000 tons; horse. Freeman Jefferson Freeman Fire Clay Co. C. A. Freeman, prest.; J. M. Freeman, seey. Cap. stk. \$80,000. Tunnel, 15,000 Ry, 175. Mahoning Greenford Fire Clay Co. Cap. stk. \$5,000. Slope, 2,000 tons; steam. Greenford Ry. 503. Haydenville. Haydenville Mining & Manufacturing Co. Charles H. Hayden, prest.: J. W. Jones, secy., treas, and mgr. Cap, stk, \$410,700. Mingo. Open ptt, tunnel, 65,000 tons; steam. Hocking Ry, 181, Wm. Lacey, Cleveland, Ohio, 77 and 79 River st. Cap. stk. \$100,000. Lacey, sandstone and fire clay. Shaft. 18,000 tons; steam. Irondale... Ry, 563, R. H. & G. C. Cook. Cap. \$5,000. Enterprise. Slope, 6,500 tons; steam, R. H. Cook. supt. Lilly . . . . Scioto Ry, Gephart 43. Hocking Joe Bartholow, No. 6, Open pit, 10,000 tons. Logan Ry. 181. Beatty Fire Clay Co., Canton, Ohio. W. M. Beatty, prest., mgr. and supt.; J. J. Whitaere, seey, and treas. Cap. stk. \$10,000. Beatty. Tunnel, 8,000 tons; horse. Magnolia Carrol (Not a P. O.) Ry, 175. Malvern Clay Co, John H, Wilson, prest.; George H, Aller, secy., treas, and mgr. Cap. stk. \$6,500, Malvern. Slope, 29,000 tons; horse. Peter Reich, supt. Malvern Carroll Ry, 175, Phoenix Fire Clay Co. C. A. Weaver, prest.; R. Roberts, seey, and treas.; Samuel Hodkinson, mgr. Cap. stk, \$75,000. Phoenix, Slope, 900,000 tons; steam. John Connor, supt.

Massillon . . . Stark Ry, 171, 585, 809.

Maxville ... Perry Ry.Winona Furnace 181. MineralPoint,Tuscarawas

Ry, 175, 778, Mogadore..... Summit Ry, 173,

Ry, 173, Mt.Vern'nFurn,Lawrence (P. O. Campbell) Ry, 156

Navarre....... Stark Ry, 173, 809, Nelsonville . Athens

New Lisbon "Columbiana Ry, 503, 586.

Portsmouth . . . . . Scioto Ry, 42, 165, 523, 539. Sandy . . . . Tuscarawas

P. O. and Ry. Mineral Point 175, 778. Springfield ...... Summit (P.O.Akron)Ry.42, 469, 503, 582, 592, 778.

), Open pit;

L. M. Butt. Tunnel; hand.

C. E. Brothers (local). Open pit.

Myers & Hall. Fire clay, 5,000 tons.

Campbell Iron Co., Ironton, Ohio, J. H. Moulton, prest.; H. H. Campbell, seey, and treas.; J. W. Campbell, mgr. Cap. stk, \$100,000. Mt. Vernon Furnace. Open pit, 6,000 tons; hand.

Massillon Stone & Fire Brick Co., Pittsburg, Pa., 933 Penn av. R. P. Duff, prest.; Wm. G. Hepp, seey, and mgr.; E. A. Kitzmillen, treas. Cap. stk, \$50,000. Tunnel, 25,000 tons; steam.

Akron Fire Brick Co., Akron, Ohio, 105 Bank st., C. A. Allison, prest.; B. M. Allison, secy., treas, and mgr., Cap. stk, \$50,000. Navarre. Slope, 5,000 tons; hand.

Nelsonville Sewer Pipe Co. James Dew, prest, and mgr.; C. H. Doan, seey, and treas. Cap. stk. \$25,000. Tunnel, 45,000 tons; steam.

Kowstone Fig. Clay Co. Frod H. Pritchurd prest, and mgr.; Willis Jordan, seey, and treas. Cap. stk.

Keystone Fire Clay Co., Fred H. Pritchard, prest, and mgr.; Willis Jordan, seey, and treas. Cap. stk. \$25,000. Keystone, Tunnel, 15,000 tons; horse. John Gillis, supt. Sciolo Star Fire Brick Works. E. B. Greene, prest.; R. A. Mitchell, seey, and mgr. Cap. stk. \$48,000. Tunnel, 15,000 tons.

Edward Holden. Point Savage. Tunnel, 5,000 tons; horse. Wm. Holden, supt.

Akron Clay Co. Archie Markle, seey, and treas.; Geo, W. Markle, mgr. Cap, stk. \$6,000. Harshberger, Open pit; steam. John Grant, supt.

Toronto . . . Jefferson John Francy's Sons Co. Cap, \$150,000. Forest City. Slope, 25,000 tons; steam, Ry, 175.

# FIRE CLAY-(CONTINUED)

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT.  TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock.  Name and Kind of Mine or Bane, Annual Output in Tons of 2,000 Pounds, Kind of Power  Used, Etc., and Name of Superintendent.
Toronto Jefferson (Continued.)	Great Weslern Fire Clay Co. Cap. \$150,000. Shaft, 24,000 tons; steam.
H	Jefferson Fire Clay Co. Cap. \$55,000. Jefferson. Shaft, 10,000 tons; steam. D. H. Kerr, supt.
Uhrichsville Tuscarawas Ry, 171, 584.	Diamond Fire Clay Co. James Ball, prest.: J. M. Cooper, seey., treas, and mgr. Cap. stk. \$25,000. Tur- nel, 20,000 tons; horse.
	Uhrichsville Fire Clay Co. W. B. Thompson, prest.; T. J. Evans, seey, and mgr.; George Beck, trea- Cap, stk. \$30,000. Slope; steam.
Walkers Columbiana Ry, 563.	N. U. Walker Clay Manufacturing Co. N. U. Walker, prest,, treas, and mgr., M. J. Ryan, seey. Cap. 8th \$270,000. Walker. Open pit, 15,000 tons; steam.
	IRŌN
	INON
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ONE, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2009 FORMER, KIND OF POWER FURNACES, ETC., AND NAME OF MINE, WEREINSTREADENT.
TOWN AND COUNTY.	
Blackband, Tuscarawas Ry, 174.	Ridgway Burton, Co., Massillon, Ohio, J. P. Burton, prest, and treas., D. Johns, seey. Cap. stk. \$30,00 Ankeny, black band ore. Tunnel, 25,000 tons; horse. Christian Maurer, supt.
Bloom Switch Scioto Ry, 43,	Clare Iron Co., Portsmonth, Ohio, J. D. Clare, prest, and treas.; E. H. Clare, seey, and mgr. Cap. st \$00,000. Black orc. Open pit, 10,000 tons. hand; charcoal furnace, capacity 3,000 tons. J. N. Fosle supt.
Campbell Lawrence Ry. Mt. Vernon Fur- nace 156.	Campbell Iron Co., Ironton, Ohio. [4, II. Moullon, prest.; II. II. Campbell, seey, and treas.; J. W. Cambell, nigr, and supt. Cap. stk. \$100,000. [Mr. Vernon Furnace, Iron ore. Open pit, 10,000 tons; hand.
Canal Dover "Tuscarawas Ry, 171, 174, 175.	Penn Iron & Coal Co. J. P. Burton, prest., H. S. Ream, seey., S. W. Croxton, treas, and mgr. Cap. st \$200,000. Bahler, black band orc. Slope, open pd. 15,000 tons, horse, hand, furnace. George Brie supt.
Fairfleld Tuscarawas (P. O. New Philadel- phia) Ry, Reed's Run 584.	G. V. Kollar. (ap. 85,000. Black band ore: Tunnel, 3,000 tons, band,
Hanging Rock Lawrence Ry, 523,	Means, Kyle & Co. E. B. Willard, prest.; James Bull, secy. and treas. Cap. \$500,000. Pine Grov carbonate iron ore. Open pit, tunnel, 25,000 tons; hand; charcoal furnace. A. R. Mackintosh, supt.
Mt.Vern'nFurn.Lawrence (P.O.Campbell/Ry.156.	Campbell Iron Co., Ironton, Ohio. J. H. Moulton, prest.; H. H. Campbell, seey, and treas.; J. W. Cambell, mgr. Cap. stk. \$100,000. Mount Vernon Furnace, from ore. 10,000 tons; hand.
New Philadelphia Tuscarawas Ry, 171, 175.	George V. Kollar. Cap. \$5,000. Black band ore. Tunnel, 3,000 tons: hand.
Olive Furnace - Lawrence Ry, 167,	McGugen & Co.   Ofive Furnace, limonite.   Tunnel, 10,003 tons, charcoal furnace.
Post Boy Tuscarawas	Black Band Iron Co., Marietta, Ohio, A. J. Warner, prest., Geo. H. Jones, secy. Cap. 8tk. \$100,0

Post Boy Tu Ry, 174.	scarawas	Black Band Iron Co., Marietta, Ohio. A. J. Warner, prest., Geo. H. Jones, secy. Cap. 8tk. \$100,000 Post Boy, black band ore. Drift, 10,000 tons; horse, A. J. Oustine, supt.	
**	· · · ·	" Morris & Howells, Canal Dover, Ohio. Cap. 8tk. \$10,000. Camp Morris, black band ore. Tunnel, 250 tons; horse. William Morris, supt.	
Radelifi	Vinton	D. H. Pearce, Tron ore. Tunnel, open pit, 5,000 tons; hand. L. Arbaugh, supt.	
Ry. 181.			
		SALT	
		7 X I X I	
LOCATION OF	Marro		
OR WELL		NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE.	
RAILWAYS, WATER		NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 20'11 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.	
Town and	COUNTY		
Pomeroy Ry, 181.	Meigs	Buckeye Saft Co. George McQuigg, prest.; A. D. Brown, seey., treas, and mgr. Cap. stk. \$65,000. Coars-fine, dairy. 75,000 brls.; steam.	
	**	Uoal Ridge Salt Co. M. B. Wells, prest.; John M. Davis, seey, and treas.; J. W. Thomas, mgr. Cap. st \$25,000. Coal Ridge. 50,000 brls.; steam.	
0		Ebersbach, Schaefer & Co. Cap. \$25,000. Pomeroy. Common, fine, dairy. Well, 60,000 brls.; steam.	
**	**	Excelsior Salt Works. B. Kochler, propr. Cap. \$3,000. Excelsior. Dairy, common, fine. 4 wells, 11,0 tons. horse.	
	++	John J. Juhler. Cap. \$30,000. White Rock. Common, fine. Artesian wells, 50,000 brls.; steam.	
	Moies	Syracuse Coal & Salt Co. Ralph Cheney, prest.; P. W. Robbins, seey, and treas.; L. H. Bridgeman, mg Cap. stk. \$100,000, Syracuse. Common, fine, dairy. Shalt; well, 42,500 brls.; steam, horse. Ada	

Fulton Ry, 765,

STONE, MARBLE, GRANITE AND ONYX		
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY,	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name of Mine or Quaret, Kind of Stone, Kind of Mine or Quaret, Annual Outfut in Tons of 2,000 Founds, Kind of Power Used, Stone or Marble Mills, Limerlins and Capacity, Etc., and Name of Mine Superintendent.	
Akron Summit Ry, 592, 169, 42, 506.	J. Hugill, 114 South College st. Cap. stk. \$20,000. Sandstone. Open pit, 4,800 tons; horse.	
	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, prest.; L. P. Haldeman, vprest. and seey; C. C. Caskey, treas.; D. D. Haldeman, mgr. Cap. 8tk, \$200,000. Sandstone. Open pit, 14,600 tons; steam; mill.	
Amity Montgomery Ry, Trotwood 170, 584.	A, J, Shaffer (local), Limestone, Hand; mill,	
	Kitzmiller Stone Co., Canton, Obio, 18 W. Eighth st. John W. Gabriel, prest., seey, and treas; H. A. Kitzmiller, ngr. Cap. stk. \$22,500. Kitzmiller, sandstone. Open pit, 18,000 tons; steam; mill, John Saunders, supt.	
Berea, Cuyahoga Ry, 170, 383,	Cleveland Stone Co., Cleveland, Ohno, Wilshire Bldg. J. M. Worthington, prest.; Geo. H. Worthington, seey, and treas. Cap. stk. \$2,250,000. Berea, sandstone. Open pit, 42,000 tons; steam; mill. James Nicholi, gen. supt.	
Berlin Heights Erie Ry, Ceylon 383,	G. A. Baillie. Sandstone, Slope, 16,000 tons; steam,	
	Maxwell Rolf & Co., Cleveland, Ohio, 5 Euclid av. Cap. stk. \$20,000. Bluestone. Open pit, 100,000 tons steam; mill.	
	Siddall & Townsend. Limestone. Open pit, 45,000 tons; steam; limekiln, capacity 2,400 tons,	
	Murphy & Mercer, Cap. stk. \$3,000. Limestone. 20,000 tons; steam; mill. George E. Mercer, supt.	
	D. B. Calder. Cap. \$2,000. Constitution, sandstone. 200 tons; steam	
" "	F. W. Knowles (local). Grindstones. 200 tons; hand; mill.	
Ry. 383.	Hamilton & Dailey Stone Co. Cap. stk. \$8,000. Whittaker, sandstone. Open pit, 2,000 tons; steam; mill	
Brownhelm Lorain Ry, 383.	Cleveland Stone Co., Cleveland, Ohjo, Wilshire Bidg. J. M. Worthington, prest,: George H. Worthington seey, and treas. Cap. stk, 82,250,000. Brownhelm, sandstone. Open pit, 42,000 tons; steam; mill James Nicholl, gen. supt.	
Buena Vista Scioto Ry. 533.	Buena Vista Freestone Co. Adolph Cadm, prest.; W. L. Cadm, secy. Cap. stk. \$50,000. Buena Vista freestone. Open pit, 20,000 tons; steam; mill. Adolph Cadm, supt.	
** **	John Miller & Sons. Cap. stk. \$25,000. Buena Vista, freestone. Open pit, 5,000 tons; steam.	
nace, 156,	Campbell Iron Co., Ironton, Ohio. J. H. Moulton, prest.; H. H. Campbell, seey, and treas.; J. W. Campbell, mgr. and supt. Cap. stk. \$100,000. Mt. Vernon Furnace, limestone, Open pit, 20,000 tons; hand.	
Carthage Hamilton Ry, 156, 170.	F. E. Wiehe (local), Cap. \$2,000. Limestone, Open pit, 578 tons; hand,	
	James Maurel, Sandstone, 1,400 tons,	
Clarksfield Huron Ry, 809,	Furlong Stone Co. Cap. stk. \$10,000. Furlong quarry, sandstone. Open pit; steam and horse; mill baniel Malloy, supt.	
	Moores & Co. Limestone. Slope; steam, W. H. Kennedy, supt.	
	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg., J., M. Worthington, prest.; George H. Worthington seey, and treas. Cap. stk. \$2,250,000. Columbia, sandstone. Open pit, 42,000 tons; steam; mill. James Nichold, gen. stupt.	
Constitution., Washington Ry, 43,	Constitution Stone Co. M. J. O'Connor, prest, and treas.; Thomas Cleary, seey, and supt. Sandstone 2,000 tons; steam; mill.	
	J. W. Ruhl. Cap. \$20,000, Rocky Branch, limestone. Open pit. 18,000 Ions; steam; mill, limekilns capacity 2,625 Ions. J. R. Rench, supt.	
Edinburg Portage Ry, 175,	W. B. Davis, Red sandstone. Open pit; hand.	
Eifort Scioto Ry, 43,	W. E. Marsh & Co. Limestone. Open pit, 30,000 tons; hand. W. E. Marsh, supt.	
	M. J. Barnes, Cap. \$8,000. Sandstone, limestone. Open pit; hand.	
	George E. Bryant, 13 W. Third st. Cap. \$10,600. Sandstone. Open pit, 800 tons; steam; mill.	
	H. E. Mussey & Co. Mussey, sandstone. Open pit; steam,	
Forest Dale, Lawrence Ry, Ironton 156, 829, 523, 533,	Edward Adkins. Limestone. Open pit, 50,000 tons; hand.	
	D. P. Lloyd Co. Cap. \$30,000. Limestone. Open pit, 15,000 tons; steam; limeklin, capacity 9,000 tons.	
	Gottron Bros. Limestone. Open pit, 6,400 tons; steam, hand; limekiln, capacity 60,000 brls.	
	1 R. Rindart, Can \$2.000. Fulton sandstone, Open bit 14.000 tons; steam, R. J. Lyons, supf.	

Morrow J. B. Rinchart. Cap. \$2,000. Fulton, sandstone. Open pit, 14,000 tons: steam. B. J. Lyons, supt.

STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)		
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRE, KIND OF NONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TORS OF 2,000 FOUND, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
Fultonham Muskingum Ry, 182.	Hoover Bros. Fultonham, limestone. Open pit, 10,020 tons; steam; limekiln.	
	Elyria Stone Co., Elyria, Ohio. H. E. Corning, prest.; W. L. Fay, seey., treas, and mgr. Cap. 8tk. \$165,000. Elyria, sandstone. Open pir, 320,000 tons; steam; mill. Charles F. Peebles, supt.	
44	Grafton Stone Co. E. S. Flint, prest.; W. S. Miller, seey.; Col. S. Bliss, treas.; W. E. Miller, vprest. and mgr. Sandstone, 80,000 tons; Cap. 8tk, \$120,000; steam; mill.	
Greenfield Huron (P. O. Steuben) Ry. 42, 535.	Coit & Graham. Stenben, sandstone. Open pit, 500 tons; hand.	
	Means, Kyle & Co. E. B. Willard, prest, and mgr.; James Bull, seey, and treas. Cap. stk. \$500,000. Junior Hearth Stone, sandstone. Hand (developing).	
Independence, .Cuyahoga Ry, 778.	d, Bender (lessee). Smiths, sandstone. Open pit, 300 tons; horse.	
	Little & Pettibone, Cleveland, Ohio, 5 Euclid av. In lependence, freestone. Mill	
0 0	Ohio Stone Co., Cleveland, Ohio, 204 Superior St. J. M. Hughes, prest; L. P. Haldeman, vprest, and seey; C. C. Caskey, treas.; D. D. Haldeman, mgr. Cap. 8tk, \$200,000. Sandstone. Open pit, 14,600 tons; steam; mill.	
Killbuck Holmes Ry, 169.	Killbuck Brown Stone Co., Chas, E., Duer, seey.; Z. T. Duer, treas, and mgr. Killbuck, sandstone. Open pit; electricity, horse, band; mill. Enos Schordorf, supt.	
La Grange Lorain Ry, 170.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest.: George H. Worthington, seey and treas. Cap. 8tk, 82,55,000. La Grange, sandstone. Open plf, 42,000 tons; steam; mill. Jax. Niebold, gen. suppl.	
LancasterFairfield Ry, 164, 181.	F. C. Neeb. Cap. \$50,090. Alleghany, sandstone. 75,093 tons; steam, horse. Wm. Stracham, supt.	
	Lime City Co. C. H. Sawyer, prest.: J. P. Bronson, seey, and treas. G. S. Breed, mgr. Cap. stk. \$50,000. Lime City, limestone. Open pd. 60,000 tons; steam; 4 limekilus. J. Hefferman, supt.	
	Michigan Stone & Supply Co., Detroit, Mich., 40 W. Fort st. Gas. F. Smith, prest, and mgr.; Cameron Currle, seey, and treas. Cap., stk, \$100,000. Homestead Quarry, limestone. Open pit, 50,000 tons; steam. Octando Eathon. supt.	
Lucas Richland Ry, 585.	Richland Stone Co., Mansfield, Ohio, Savings Bank Bidg. H. C. Post, prest., Ed H. Zurhorst, seey.; Geo. E. St. John, treas.; Chas. W. French, mgr. Cap. stk. 8500,000. Lucas. Sandstone; slope and steam,	
	A. J.Brown, Limestone; open pit; steam,	
Rv. 181.	J. H. Pficher (local). Pilcher, limestone. Open pit; hand.	
McChainville . Belmont Ry, 42,	Joseph McClain & Son, Bellaire, Ohio, 3322 Guernseyst, Joseph McClain, prest, and mgr., Wm. G. Me-Clain, seey, and treas. (ap. 8tk, \$0,000. McClainville, samd-tone. Open pd. 20,000 lons; steam, Henry Hally, 8upl.	
Marble CliffFranklin Ry, 584.	T. J. Price & Co., Columbus, Oldo, 72 N. Se, oto st. Marble C'al, Emestone. Open pit, 93,000 tons; steam, limekiln, capacity, 5,000 tons. J. E. Price, supt.	
Marblehead, Ottawa Ry, 384,	Kunz & Johnson, Sandusky, Ohio, Water st. Cap. 875,000. Limestone. Open pit, 100,000 tons; hand; limekiln, capacity 450,000 brls. John Burns, supt.	
54	Sloss Marblehead Lime Co. S. Sloss, prest, and treas.; F. Vandervell, m.gr. Sloss Marblehead, limestone, Open pit.	
Massilion, Stark Ry. 171, 585, 809,	Vogt Stone Co. Wm. H. Vogt, prest.; Wm. McM llan, seey, and treas.; F. T. Vogt, mgr. and supt. Cap. stk. 88400. Sandstone. Open pit, 15,000 tons; steam; in.ll.	
**	Warthorst & Co. Sandstone, sand.	
Mt.Vern'nFurn.Lawrence (P.O.Campbell)Ry.156,	Campbell Iron Co., Ironton, Ohio, J. H. Moulton, prest,; H. H. Campbell, seey, and treas.; J. W. Campbell, mgr. Cap. stk. \( \) \( \) (00,000. Mt. Vernon Furnace, limeston). Open pit, \( \) (2,000 tons; liand. \)	
Newark Licking Ry, 42, 584.	George Havens. Newark, freestone. Open pit, 2,000 tons; hand.	
Ry, 503, 586,	John H. O'Mata. Cap. \$5,000. Excelsior, sandstone. Open p.1, 1,000 tons; band.	
Newport Adams (P. O. name Wilson) Ry, 165,	Highland Stone Co., Norwood, Ohio, F. J. McFarlan, prest, and seey.; John W. Taball, seey., mgr. and supt. Cap. 8tk, \$5,00. Line Ione. Open pt. 19,50 tons; mill.	
"	L. & F. Tueting, Cincianati, Ohio, 50 Webster st. Cap. stk, §10,000. Shimar, limestone. Open pit, 2,000 tons; hand. F. Tueting jr., supt.	
	Cleveland Stone Co., Cleveland, Ohio, Wilshire Ridg. J. M. Worthington, prest.: George H. Worthington, seey, and trens. Cap. 848, 82,250,000. North Amberst, sandstone. Open pit, 45,003 tons; steam; mill. James Nicholl, gen. supt.	
	Cleveland Stone Co., Cleveland, Ohio, Wilshire Edg. J. M. Worthington, prest; George H. Worthington, seey, and Ireas. Cap. stk. \$2,250,000. Olmstead Falls, sandstone. Open pr. 42,000 tons; steam; mill. James Vicholl, gen. supt.	
Otway Seloto Ry, 165.	W. R. Smith & Sons. Freeman, sandstone. Open pit, 65,000 tons; steam, horse, hand. F. C. Smith, O. F. Smith and James Barker, supts.	
Owen Marion	D. Owens & Son. Owens, limestone, sandstone, 32,850 tons; steam; limekiln, capacity 2,400 tons,	

Marion D. Owens & Son. Owens, limestone, sandstone, 32,850 tons; steam; limekiln, capacity 2,400 tons, Daniel Owens, supt. Owen ... Ry. 181. Summit Cleveland Stone Co., Cleveland, Ohio, Wilshire Eidg., J. M. Worthington, prest.; George H. Worthington, seey, and treas. (ap. 84k, \$2250.00), Peninsula, sandstone. Open pit, 42,000 tons; steam; mill. James Nichol, gen. sup. Peninsula , Ry. 778.

# STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.	Name of Company or Individual, Location of Phincipal Office, Names of Officers, Capital Stock, Name of Mine on Quarix, Kind of Stone, Kind of Mine on Quarix, Annual Outfut in Tone of 2,000 Pounds, Kind of Power User, None of Mahebe Mills, Linealine and	
TOWN AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.	
PeninsulaSummit (Continued.)	Ohio Stone Co., Cleveland, Ohio, 204 Superior st. J. M. Hughes, prest.; L. P. Haldeman, vprest. and seey,: C. C. Caskey, (reas.; D. D. Haldeman, mgr. Cap. stk, \$200,000. Sandstone, Open pit. 14,00 tons; steam; mill.	
Plymouth Richland Ry. 42, 582.	Plymouth Stone Co. D. L. Critten, prest.; Jacob Wallace, secy, and treas.; C. H. Whittier, mgr. and supt. Cap. stk, 86,000. Sandstone. Open pit; steam, horse,	
Point Pleasant Clermont Ry, 533,	Galbreath & Bushman. Cap. \$3,000. Limestone. Open pit, 6,000 tons; horse, hand.	
** **	Point Pleasant Stone Quarry. Limestone. Open pit, 750 tons; hand. George F. Knabb, supt.	
Ridgeville Lorain (P. O. Bement) Ry. Shawville 383.	Dallas Beebe, Cap, \$3,000. Beebe, sandstone. Open pit, 75,000 tons; horse, hand.	
Rockbridge Hocking Ry, 181,	Detroit & Hocking Valley Red & Brown Stone Co., Detroit, Mich., 55 Champlain st. Joseph S. Visger, prest. Richard J. Sinclair, sery.; G. Chirra, treas.; Charles C. Camy, ngr. Cap. stk. \$100,000, Hocking Valley, sandstone. Open pit, 15,000 tons; Steam, H. A. Flowers, supl.	
St. James Morrow Ry, 170,	Buckeye Stone Co., J. J. McClarren, prest.; A. W. Monroe, secy. and treas.; J. H. McClarren, mgr and supt. Cap. stk, \$20,000. Buckeye, sandstone. Open pit, 15,000 tons; steam.	
	J. K. Galloway. Limestone, Open pit,	
Springfield Clarke Ry, 170, 503, 535, 584.	Wm. K. Duke, 97 W. Mulberry st. Mill Creek, limestone. Open pit; hand; mill.	
*	Mills Bros., 107 S. Limestone st. Cap. stk. \$40,000. Limestone. Open pit, 25,000 tons; steam and hand; mill, kiln, 8,500 tons. Henry Hoss, supt.	
Stony Ridge Wood Ry, 765.	Luckey Stone Co., Elmore, Ohio. J. B. Luckey, proprietor. Luckey, limestone. Open pit, 40,000 tons; steam; mill.	
Sugar Grove Fairfield Ry, 181.	R. L. Sharp Stone Co. Sandstone. Open pit; hand, horse.	
11	Wm. Sharp. Buckeye. Open pit, 2,000 tons; hand.	
	D. P. Oram. Limestone. Open pit, 1,000 tons; hand.	
Sunbury Delaware Ry, 169.	Sunbury Stone Co. William Bunyan, prest.; Edward T. Panyan, seey, and mgr. Cap. stk. \$25,000. Sunbury. Open pit, 4,800 tons; steam; mill. John Hunter, supt.	
Thompson Geauga Ry, Madison 383, 502,	Chrys Sidley, Cap, \$2,000. Sandstone, 20,000 tons; horse and hand; mill.	
Tiffin Seneca Ry, 42, 170, 530,	J. Poling. Cap. \$3,000. Limestone. Open; hand.	
Vincent Washington Ry, 765.	Hayes Bros. Cap. \$15,000. Sandstone. Open pit, 1,000 tons; steam; mill.	
Wakeman Huron Ry, 383,	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest.; George H. Worthington, seey, and treas. Cap. stk. \$2,250,000. Wakeman, sandstone, Jopen pit, 42,000 tons; Steam; mill. Jas. Nicholl, gen. supt.	
Waverly Pike Ry. 523, 535,	Waverly Stone Co., W. S. Jones, prest.; J. W. Logan, seey, and treas.; R. E. Sharpe, mgr, and supt. Cap. stk. \$5,000. Sandstone. Open pit, 24,000 tons; steam, horse, hand; mill. R. E. Sharpe, supt.	
West View Cuyahoga Ry, 170.	Cleveland Stone Co., Cleveland, Ohio, Wilshire Bidg. J. M. Worthington, prest; George H. Worthington, seey, and freas. Cap. stk. \$2,250,000. West View, sandstone. Open pit, 42,000 tons; steam; mill. Jas. Nieholl, gen Supt.	
Whitehouse, Lucas Ry, 784.	J. L. Pray & Son. Cap. 8tk, \$3,000. Sandstone. Open pit, 10,000 tons; hand; mill. J. E. Pray, supt.	
Youngstown . Mahoning Ry. 382, 503, 503, 591,	Youngstown Stone Co. R. T. Walker, prest.; F. P. Hood, secy.; Wm. Cornelius, treas.; George W. Canfield, mgr. Cap. stk, \$5,000. Youngstown, sandstone. Open pit; steam; sand mill.	
ZanesvilleMuskingum Ry. 42, 164, 170.	E. M. Ayers, 108 Main st. Cap. \$10,000. Dillon Falls, sandstone. Open pit, 10,000 tons; steam. Harry Lucas, supt.	
**	A. Emery, Cap. \$10,000. Putnam, sandstone. Slope, 7,000 tons; hand.	
**	John W. King, 15 N. Fourth st. Kings, fire clay, sandstone. Open pit, 3,099 tons. George Smith, supt.	
40	Philip Mowrin (local), 93 Elm st. Cap. \$1.500. Mowrin, limestone. Open pit, 9,000 tons: hand, Limekiln. 6,000 tons capacity.	

SEE ALSO SUPPLEMENTARY LIST

# OREGON

### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

LOCATION OF MINE

Name of Company or Individual Location of Principal Office, Names of Officers, Capital Stock, Xame of Mine, Kino of Obe, Kind of Mine, annual Outfut in Toos of 2000 Pounds, Kind of Power Used, Fundaces, Etc., and Name of Mine Suferinstendent.

Gold Beach...... Curry N. Huntley. Black Diamond. Open pit, 40 tons; refractory; hand, Ry, 552.

### GOLD AND SILVER

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	or rough cons, made attach, site, and saan or mine occumentation
Applegate Jackson Ry, Jacksonville 776 (17 miles),	John T. Layton, Cap, 830,000. Farris Gulch, gold. Placer; hydraulle.
Ashland dackson Ry, 692.	Ashland Mining Co., Portland, Ore., 43 Stark st. P. Kelly, prest.; H. T. Coilin, seey, and treas. Cap. stk. \$200,000. Patton and A. N. King, gold and silver. Shaft and tunnel; free. Joseph A. Wilson, supt.
Auburn Baker Ry, Baker City 776.	Jas, U. Wells, Gold, Shaft, horse,
Baker City Baker Ry, 776,	Balsley-Elkhorn Mining Co., Portland, Orc., 140 Ffrst 81. L. W. Nelson, prest, mgr. and supt. S. J. Barber, seey. Cap. 8t. 81,000,000. Elkhorn, gold and silver. Shafts, tunnels and levels, 20,000 tons; free and refractory; steam. Bryan and Huntington mills.
**	Baker City Gold & Silver Mining Co. Asidor Fuchs, prest., A. B. Elmer, seey.; A. H. Terry, treas. Cap. stk. \$200,000. Monumental and Tight Squeak, gold and silver. Shaft and tunnels: free (developing).
** 11	Elkhorn Gold Mining Co., Portland, Gre., 183 Fjrst st. 1., W. Nelson, prest.; Geo. N. Wolfe, seey.; North- Western Loan & Trist Co., treas; Lewis O. Nelson, mgr. and supt. Cap. 8tk, 819090, Gold Medial and Gold Engle, gold and silver. Shafts, tunnels, drifts and slopes, 9,000 tons; free and refractory; steam, mill.
(t2 miles),	Elkhorn Mining Co., Portland, Gre. J. H. Robbins, prest., mgr., and supt.; W. L. Harmon, seey.; F. G. Davidson, treas. Cap. stk. \$50,000. Elkhorn, gold and silver. Tunnel; free and refractory; water; mill.
(37 miles),	Eureka & Excelsior Consolidated Mining Co., St. Louis, Mo., 766 Oriel Bldg. R. C. Kenns, prest.; C. H. Suilfa, seey.; C. M. Donaldson, mgr. Cap. 8tk. \$30,000,000. Eureka and Excelsior, gold and silver. Tunnels, refractory, steam, 20 stamps.
(35 miles),	Geiser Estate, Albert Geiser, mgr. Bonanza, gold. Tunnel, 7,500 tons; free; steam; 40 stamps.
**	Hodgins & Rohner. G. R. Hodgins, prest, and mgr.; John Rohner, seey.; P. R. Beship, treas, and supt. Cap. \$30,000. Cow Boy, gold and silver. Tunnel; free (developing).
46	Jones & Carpenter, Cap. 80,000. Never Sweat, gold. Placer, deep; hydraulic and water. Moses Carpenter, supt.
41	Robinson Gold Mining Co., Geo, W. Robinson, prest, and seey.; D. W. C. Nelson, mgr. and supt. Cap. stk. \$1,000,000. North Star, gold. Tunnel, L600 tons; refractory.
(16 miles).	Robinson Mining Co., S. Ottenheimer, prest., E. F. Waring, secy.; D. W. C. Nelson, treas., mgr. and supt. Cap. 8lk. \$1,000,000. Robinson, gold. Drift; refractory (developing).
. "	Snowstorm Consolidated Gold Mining Co., Bedford, Indiana, Thomas V., Thornton, prest.; Edmand B., Thornton, seey, and trens.; J. E., Meacham, mgr. and supt. Cap. 8tk, \$500,000. Sovering, Golden Charlot, Thornton, Windsor, Lily White, St. Albans and Eureka, gold. Slope and shaft, 9,000 tons; horse, water; 10 stamps.
**	Washington Gulch Mining Co., Portland, Ore., 354 E. Oak st. S. M. Keenan, prest.; A. L. Keenan, seey, and treas.; Wm. Deemer, ngr., and supt. Cap. stk. \$125,000. Washington Gulch, gold. Placer; hydraulic,
Bolt Jackson Ry, Woodville 692,	Alexander Orme, Brother, gold. Placer; water,
Bridgeport Baker Ry,Baker City 776(20 m.).	Burnt River Mining Co. Archie J. Murray, prest.; William Cox, sery.; J. H. Murray, treas., F. Cavin, ugr. and supt. Cap. \$10,000. Chicken Bar, gold. Placer; hydraulic.
0	Henry Heisy. Blue Bar, gold. Tunnel, placer.
Cable Cove Båker (P. O. Baker City) Ry, McEwen, 776 (16 m.).	Eagle Maning Co. L. U. Colbath, prest.; W. S. Crismon, seey, and treas.; John C. Young, mgr. Cap. \$1,000,000. Eagle Group, gold and silver. Shafts and tunnels, 10) tons; free and refractory.
Caleb Ry, The Dalles, 776.	Owens, Erieson & Taswell. Spanish Galch, gold. Placer; hydraulic.
Canyon City Grant Ry.Baker City 776(75 m.).	Hugh Cannon, Gold, Placer; water, hydraulic,
**	Clark & Rulison. Last Chance, gold. Placer; hydraulic.
	William Hahn, Quartz Gulch, gold. Placer; hydraulic.
81 61	Humboldt Mining Association. H. W. Sloan, mgr. Cap. stk. \$25,000. Humboldt, gold. Placer; hydraulic.
43	J. A. Whitman, Cap. \$4,000. Whitmans, gold. Placer; hydraulic, water.
Canyonville	Ash & McWilliams, Cap. \$15,009. McWilliams and Ash, gold. Placer: hydraulic.

	GOLD AND SILVER-(CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNOAL OUTFUT IN TONS OF J.00 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDED.
TOWN AND COUNTY	. OF TOWER COED, GIAMF MILLS, LIG, AND MAKE OF MINE SUPERINTENDENT.
Canyonville. Dougla (Continued.)	s D. J. Bollenbough. Pickune, gold. Placer; hydraulic, wafer,
48 84	Last Chance Mining Co. Last Chance, gold, silver and copper. Tunnel; free; water. E. L. Goodridge supt.
**	D. A. Levens. Douglas, gold. Shaft and tunnel; free; water.
44	James Vokum, Cap. \$500. Gold. Placer; hydraulic (developing).
Connor Creek . Bake Ry, Huntington 776 (2 miles).	Connor Creek Mining & Milling Co., Portland, Orc., Abington Bldg. S. G. Reed, prest.; Martin Wynch secy. and treas; J. Myrick, mgr. and supt. Cap. stk, \$1,000,000. Connor Creek, gold. Tunnel, 16,000 tobs; free; water; 35 stamps.
44	Dinning & Thomas, Cap. stk. \$2,000. Albatross, gold. Open pit, placer; water.
Cornucopia Unio Ry, Union 776 (40 m.)	Companion Mining Co. Gold and silver. Shaft and tunnel; free and refractory; steam; 5 stamps. E. P Torrey, supt.
Ry.Baker City 776(60m.)	Last Chance Mining Co. Last Chance, gold. Tunnels; free and refractory (developing).
** **	New Discovery Mining Co. New Discovery, gold and silver. Tunnels; free and refractory (developing) R. Kelly, supt.
60 A A A A A A A A A A A A A A A A A A A	Norway Mining Co. Cap. stk. \$6,000. Norway, gold. Tunnel, 3,600 tons; free and refractory; water. Huntington mill. Geo. Lindgreen, supt.
**	Nyanza Mining Co. Nyanza, silver. Shaft; free and refractory (developing). Robert Kelly, supt.
44	Oregon Gold Mining Co., Louisville, Ky., 514 W. Main st. Geo. H. Dietz, prest.; H. W. Bohmer, seey. A. L. Schmidt, treas.; O. F. Steen, mgr. Cap. stk. \$300,000. Red Joaket and Whitman, gold and silver Tunnel, 10,000 tons; free and refraetory; steam and water; 20 stamps. J. H. Wilson, supt.
	Queen of the West Mining Co., gold. Shafts and inclines; free; hand (developing). Robert Kelly, supt
3.0	Stella Mining Co. Stella, gold and silver. Tunnel; free and refractory (developing). W. S. Wilson, supt
**	Union Mining Co. Anstead, Tice & Burdett, proprs. Union, gold and silver. Tunnel; free and refractory (developing).
Eugene	8 Myrtle Creek Hydraulle Gold Mining & Manufacturing Co., Eugene, Ore, L. W. Brown, prest, mgr and supt. J. F. Robinson, seey.; T. G. Hendricks, treas. Cap. 8tk, \$20,000. Myrtle Creek, gold Flacer; hydraulic.
Glendale Dongla: Ry, 692,	s J. T. C. Nash, Nash, gold. Placer; hydraulic, water.
Granite	t Baisfey & Klopp. Cap. stk. \$33,000. Baisley & Klopp, gold. Placer, deep; hydraulic, water. Asaac Klopp. supt.
**	Fairview Ophir Mining Co., Pendleton, Ore., Calvin cor. W. R. R. st. Peter Parmentior, prest.; R. R.

rview Ophir Mining Co., Pendleton, Ore., Calvin cor. W. R. R. st. Peter Parmentior, prest.; R. R. Dixon, seey.; David Horn, treas.; Frank Duprat, mgr., and supt. Cap., stk. \$150,000. Encouragement. gold, silver, copper and lead. Shaft; hand and horse; mill, 40 stamps. Granite & Greenhorn Milling and Mining Co. A. G. Tabor, prest; C. S. Miller, seey., mgr, and supt. Cap. stk. \$1,250,000. Monumental and Morris Consolidated, silver. Shafts and tunnels; refraetory; steam; 20 stamps.

Grant Silver Mining Co., Portland, Ore., cor. Front S. st. Geo. W. Weidler, prest; Thomas Gray, seey, and treas, J. C. Powers, ingr. and supt. Cap. 8tk. \$100,000. Intrinsic and others, gold and silver. Shafts and tunnel: Fefractory; steam. G. H. Gutridge & Co. H. Gutridge & Co. G. H. Gutridge, prest.; Harry Mack, seey.; M. Thornburg, treas.; E. E. Thornburg, mgr. Cap. stk. \$5,000. Camp Mason, gold. Placer; water. A. J. Dickison, supt.

Grants Pass Josephine T. J. & J. T. Clark, Cap. \$120,000. Quartz Boulder, gold, Placer, hydraulic, T. J. Clark, supt.

Ry, 692.

Ry. 776.

Harney

Rogne River Mining & Developing Co. J. T. Flynn, prest.; A. C. Taylor, seey, and supt.; Robert G. Smith, treas. Cap. stk. \$100,000. Conductor and Gray Mule, gold. Tunnel and shafts, 1,000 tons; free and refractory; steam; 10 stamps.

Greenhorn ... Grant C. G. Nelson, Austin, Ore. Greenhorn, gold. Placer; water, (P.O. Austin) Ry, Me-Ewen 776 (50 miles).

.Harney Robert Drinkwater, Gold, Placer; water (developing).

Ry. 776.

Harney Bruner & Gilham, Main st. Cap. \$1.500. Big Boulder, gold and silver. Shaft; free; hand,

Ry. Harney 776 (130 m.)

Heath & Roberts, Harney City, Ore. E. A. Heath, prest.; John E. Roberts, seey, and treas.; D. A. Cawlfield, mgr. and supt. Cap. stk. \$30,000. General Heath, gold. Placer; hand.

J. A., J. E. & J. H. Loggan, Cap. \$1,239. Gold. Placer (developing),

Ream, Black & Kitching, Portland, Orc., 450 Seventh st. C. R. Black, mgr. Clarvomt, gold and silver. Refractory. E. H. Ream, supt.

Samuel Roach, Cap. \$4,000, Gold, Open pit, placer.

Jacksonville Jackson Jacksonville Mining & Milling Co. Jeremiah Numan, prest.; Silas J. Day, secy.; Thomas J. Kenney, trest.; D. Gronemiller, mgr. Cap. sik, \$0,000. Jacksonville, gold. Tunnel; free and refractory; hand (developing). Henry Klipple, supt.

Wallowa Royal Purple Mining Co., T. J. Dean, prest,, mgr. and supt.; T. M. Dean, seey.; J. F. Cutler, treas. Cap. sik, \$1,000,000. Royal Purple, silver and copper. Tunnel; free and refractory; water; concentrator, crusher and hurnace, 5 staims. La Grande.

. Union Chloride Mining & Milling Co., Portland, Orc., 33 Stark st. F. W. Palne, prest.; M. D. Wisdom, seey.; R. L. Durham, treas.; J. K. Romig, ngr. Cap. stk. \$500,000. Chloride, gold and silver. Tunnel, 350 tons; free; water. J. J. Taylor, singt. Josephine Alta Ditch Co., Grants Pass, Ore. L. C. Windom, prest.; J. W. Sherer, seey, and treas.; John A. Niday, mgr. and supt. Cap. stk. \$3,000. Gold. Placer.

### GOLD AND SILVER -(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPINO POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Leland Josephine (Continued.)	L. N. Browning, Browning, gold. Placer.
Matheur Matheur Ry, Baker City,	Samuel & Hiram Colt. Cap. \$10,000. Tip Top, Humboldt and Autocrat, gold. Shaft, funnel and slope 500 tons, free; steam; 2 stamps.
Prairie City . Grant Ry, Baker City 776 (67 miles),	W. E. Gifford. Present Need, gold and silver. Shaft and tunnel, 100 tons: free and refractory; steam,
**	Geo, E. Robinson & Co. Colorado, gold. Tunnel, 3,590 tons, refractory; steam; 5 stamps. Geo, E. Robinson, supt.
Riddles Douglas Ry, 692 (3% miles).	Canyonville Mining, Water & Manufacturing Co., Eugene, Ore. E. C. Smith, prest.; Hon. A. C. Woodcock, seey. Cap. 8tk. \$500,000. Canyonville, gold. Placer; hydraulic developing).
**	S. S. Cafching, Cap. \$500. Gold. Placer.
	John Rudson, Cap, \$5,000. Gold. Open pit, water (developing).
Rock Creek Baker P. O. and Ry. Baker City 776.	Robinson Mining Co. Geo, W. Robinson, prest.; D. W. C. Nelson, seey, and treas.; F. C. Smth, mgr, amsupt. Cap, stk, \$1,000,000. North Star, gold. Tunnel, 400 tons; free and refractory, steam and water mill.
Rye Valley . Baker Ry, Weatherby 776 (15 miles).	Cartwright Bros., dessees . Rye Valley, gold. Placer.
	H. B. Frans, Silver Blue and Extension, gold and silver. Tunnels; free; hand and arrastre.
	John Frisco, Bonanza, gold. Placer; hydraulic.
Sanger Pnion Ry, Union 776 (30 m.).	C. T. Bradley Minling Co., Daggett, Cal. C. M. Sanger, prest.; A. T. Sanger, secy.; C. T. Bradley, treas Cap. 8th, \$100,000, Summit, gold and silver. Shatt, 10,009 tons: free: steam; 10 stamps. W. J. Townley, supt.
**	Sturgill Bros., Baker City, Oregon. Bonanza, gold. Shaft; refractory; horse.
Sardine Creek Jackson (P. O. Rock Point) Ry. Gold Hill 692.	N. & C. Ritter.   Lucky Hill, gold.   Tunnel: tree; horse and hand; arrastre.   N. Ritter, supt.

Spanish Gulch Gram (P. O. Caleb) Ry. The Dalles 776. Sparta Union Ry. Baker City 776.

Grant Mule Gulch Mining Co. W. W. Cowne, prest, and mgr., R. V. Gibbons, seey., W. B. Cowne, treas, Cap. y. The stk, \$20,000. Mule Gulch, gold. Placer; hydraulic. E. Seville, supt.

Union E. H. Bover, Walla Walla, Wash. Bover's, gold. Placer, hydraul'c. Edward Whitney, supt.

Eastern Oregon Gold Mining Co., Detroit, Mach., Geo, W., Robinson, prest.; Geo, H., Lathrop, sery, and treas. Cap. stk. 8100,000. Little Archie, gold. Shaft and tunnel, 200 tons; free; hand. F. C. Smith, supt.
Jay Gay Lewis. Silver Queen and Livingston, gold. Shafts, tunnels, 2,000 tons, free and refractory; horse.

Oro Dell Mining & Milling Co., Chicago, Ill., 225 Dearborn St. W. W. Watson, prest,; Chas. N. Hale, seey, and treas; F. A. Heffierington, ingr., and supt. Cap. 8(k, \$1,000,000. Oro Dell, Belle of Kansas and a others, gold. Shaft and tunnel; free, steam, mill.
Snowstorm Consolidated Gold Mining Co., Bedford, Ind. T. B. Thornton, prest., E. B. Thornton, seey, and treax, J. E. Meacham, and supt. Cap. 8(k, \$200,000. Snowstorm, gold. Shaft and slope, free; water; 10 stamps.

Sterling Jackson P. O. and Ry. Jacksonville 692.

Jackson Sterling Mining Co., Portland, Ore. Vincent Cook, prest.; O. L. Cook, seey, and treas.; Henry E. An-Jackson-keny, mgr, and supt. Cap. stk. \$40,000. Sterling, gold. Placer; water.

Sumpter Bake Ry, Baker City 776,

Baker Mary Agnes, Consolidated Placer Mining Co., Cap. 8tk., \$8,000. Mary Agnes, gold. Placer; hydraulic 700. A. Downie, 8tpt., Grant Stoan & Haskell., Gold. Placer; Lglant; steam.

Ry, Heppuer 776.
Waldo. . . . Josephine
Ry, Grant's Pass 692.

rine Geo, Simmons & Z. Cameron. Geo. Simmons, mgr. and supt. Simmons & Co., gold.

Wolf Creek. Josephine

Wimer Bros, & Co., Oakland, Cal., 1003 Washington st. Waldo, gold. Deep: hydraulic, William & Ruth Ruble, Cap. 825090. Ruble, gold. Open pit, deep; water. S. C. Ruble, supt. and hydraulic mine inspector.

Woodville . Jackson Alex, Wilson, Gold, Placer; water Ry, 692.

### IRON

Location of Mine, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAME OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTEMBENT.

Oswego Clackamas Ry, 692,

Clackamas Oregon Iron & Steel Co., Portland, Ore., 166 Third st. Theo, R. Wilcox, prest.; J. Frank Watson, seey, and mgr.; Ladd & Tilton, Ireas. Cap. stk. \$1,590,000. Prosser and Duck Fond, brown hematite. Shaft and tunnel, 40,000 tone; steam. J. H. Pomeroy, supt.

### KAOLIN

	TION OF OR BAN	K.
AND SI	S, WATE	R ROUTES, POINT.
m		0

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Huntington. ....Baker (Mine in Malheur Co.) (Ry, 776. | F. C. Brodle, treas.; James Sudweeks, ngr. Cap. stk. \$1,000,000. Kaolin (developing).

### LEAD AND ZINC

	TION OF	MINE, R ROUTES
	SHIPPING	
Town	AND	COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Ry. 776.

### MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

COUNTY

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND Etna Ry, Gold Hill 792.

Town

Town

Jackson H. Richardson. Mineral paint. Open pit.

### NICKEL

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND Riddles .Douglas Ry, 692 (4 miles).

Edson Adams & Harvey S, Brown, San Francisco, Cal., Fourth and Townsend sts. Oregon (developing). W. Q. Brown, supt.

International Nickel Mining Co., Chicago, Ill., Chamber of Commerce Bidg., cor. La. Salle and Washington sts. James R. Ashley, prest.; Win, H. Taylor, seey., treas, and mgr. Cap. stk. \$5,000,000. Riddles. Shart, tunnel and open pit, 000 tons; steam, Will Q. Brown, supt.

### PRECIOUS STONES

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Hardman. Ry. Heppner 776.

Morrow William A. Fisher. Peters, opals.

### STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Town AND

Forest Grove Washington Forest Grove Stone Co., J. G. Boos, prest,: E. H. Heitzhausen, secy.; A. Vosper, treas.; J. Hausen, mgr. Ry, 692. Cap. stk. \$50,000. Forest Grove, blue sandstone. Open pit; steam (developing).

Oregon Marble & Lime Co., Portland, Ore, T. F. Rourke, prest, and mgr.; Charles F. Beebe, secy.; C. E. S. Wood, treas. Cap. stk. \$50,000, Lime-tone, Open pit, 18,000 tons; hand; kilins, 10,000 tons. W. L. Peaks, supt. Lime Station Baker (P.O. Huntington) Ry.

St. Helen Columbia Burke's Quarry, Portland, Ore., 7212 Morrison st. Burke's, basalt rock. 2,000 tons. Ry. 552.

# PENNSYLVANIA

COAL: ANTHRACITE	
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
Alaska Northumberland (P. O. Strong, Pa.) Ry, 578,	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227-8. Fourth st. A. A. McLeod, prest, and gen. mgr.; Franklin P. Kaereher, seey.; W. A. Church, treas. Alaska. 188,64 tons; steam; breaker and washer. John Veith, supt.
Alden Statlon - Lazerne Ry, 118.	Alden Coal Co. Richard Sharpe sr., prest.; George H. Myers, seey.; Richard Sharpe jr., treas. Cap. stk. \$200,000. Alden. Tunnel and shaft, 300,000 tons; steam; breaker. K. M. Smith, supf.
Archbald Lackawanna Ry, 213, 505.	Delaware & Hudson Canal Co., Scranton Pa., 2301 Providence pl. R. M. Olyphant, seey.; C. A. Walker, treas: H. G. Vonng, ngr. Cap. 8tk, 800,00,000. White Oak. Slope and tunnels, 165,000 tone; strain and horse; breaker, Andrew Micol. supt.
	Riverside Coal Co., Seranton, Pa. Jas, J., Williams, prest.; Thos. E. Jones, seey, and treas.; John Reese, mgr. Cap. stk. \$200,000. Riverside. 125,000 tons; steam; breaker. Thos. J. Williams, supt.
Ashland Schuylkill Ry, 393, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Bast. (18,500 fons; steam; breaker and washer, John Velth, supt.
Ashley Luzerne Ry, 118.	Lehigh & Wilkes Barre Coul Co., New York City, Central Bldg. J. R. Maxwell, prest.; W. T. Zell, seeg, and treas.; Elmer H. Lawall, supt. Jersey, No. 8. Slopes, 151,776 tons; steam; breaker, M. R. Mergans, suph.
Audenried Carbon Ry, 393, 578.	C. M. Dodson & Co., Bethlehem, Pa. G. M. Dodson, prest.; A. S. Schropp, seey, and treas.; E. L. Rullock, mgr. Cap. 820000. Beaver Brook. Slope. 201000 fons, steam, breaker and washer. D. J. Thomas, supt.
	Lehligh X Wilkes Barre Conl Co., New York City, 143 Liberty st. J. R. Maxwell, prest.; W. T. Zell, seeg, and treas.; E. H. Lawall, mgr. Honey Brook. Slopes, 560,000 Ions; steam; breaker and washer. D. P. Roberts, supt.
	Ayoca Coal Co., Ltd. C. C. Bowman, prest.; E. L. Bowman, seey, and treas.; W. H. Hollister, mgr. Cap., sfk, \$20,000. Ayoca. Shafts, slope and tunnel, 100,000 tons, steam; breaker. Solomon Deeble, supt.
	Florence Coal Co., Ltd., Seganton, Pa., 322 Lackawanna av. W. B. Whitney, prest.; E. P. Kimesbury, socy.; Chas. P. Mafthews, treas.; Austin Moore, mgr. and supt. Cap. 848, 88300. Elmwood, Shaft, 116,250 tons; Steam, breaker.
44	Langeliffe Coal Co., Seranton, Pa., Lackawanna av. R. G. Brooks, prest., T. R. Brooks, seey.; J. A. Mears, treas. Langeliffe. Shaft and tunnel; steam, breaker.
Beaver Meadows Carbon Ry, 393,	William T, Carter & Co., Philadelphia, Pa., 3(2) Walnut St. Cap. \$400,000. Coleraine. Slopes, 120,000 tons: strain, breaker.
47	Coxe Bros, & Co., Drifton, Pa. Cross Creek Collieries. Tunnel, 192,000 tons; steam; coal breakers and washers. E. B. Coxe, supt.
**	Evans, Mining Co., H. J. Boardman, prest.; Chas, Haigh, seey.; John D. Evans, treas., mgr, and supt. Cap, 8tk, 8150,000. Evans. Slope, 50,000 fons. steam; breaker, washer.
	State Lline & Sullivan R. R. Co., Towanda, Pa. J. Raymond Claghord, prest.; O. A. Baldwin, seey, and treas., 1,0, Blight, mgr, and supt. Cap. stk. \$1,00,000. Bermee. Tunnel, 150,000 tons; steam; breaker and washer.
Blackwood Schuylkill Ry, 570, 393,	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third St Elisha P. Wilbur, prest.: 4, R. Fanshawe, seeg.: Win. C. Alderson, treas., W. A. Lathrop, mgr. and supt Cap. 50, 855,000. Blackwood, 8,100 tons, steam; breaker.
	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and ugr.; F. P. Kaereher, seey.; W.A. Church, treas. Ofto, 113,300 tons; steam; breaker. R.C. Luther, supt.
Brownsville .Schnylkill (P. O. Lost Creck) Ry, 578.	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Win, C. Alderson, treas.; W. A. Lathrop, ugr. and supt. Cap. 8tk, 8650,000. Packer No. 3 Colliery, 91,300 tons; steam: breaker.
Carbondale Lackawanna Ry, 213, 503 and 505.	Delaware & Hudson Canal Co., scranton, Pa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey.; C. A. Walker, treas; H. G. Young, mer. Cap. stk. \$20,000,000. Clinton and Powderly slopes, coal Brook, Wilson Creek and Rackett Brook tunnels, and Carbondale Nos. 1 and 3 shafts, 620,000 tons; steam and horse; breakers. Andrew Nacol, supt.
**	Northwest Coal Co., Scranton, Pa. C. D. Simpson, prest.; A. F. Law, secy.; T. H. Watkins, treas. Cap. stk. 8100,000. Northwest. Slope, 300,000 tons; steam; breaker. James L. Crawford, supt.
	8trond & Chamberlain, Belmont st. and Oak av. G. F. Chamberlain, mgr. and supt. Cap. 8tk, \$50,000. Ontario and Belmont. Slope and tunnels, 68,000 tons, steam, breaker.
therefore the state of the stat	Wm. P. Williams, 109 S. Church St. Cap. \$1,000. Tunnel, 40,000 tons; hand; breaker.
Centralia . Columbia Ry, 398,	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk, \$650,000. Continental.
	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227–8, Fourth st. A. A. McLeod, prest, and gen, mgf.; F. I. Kaierber, seev.; W. A. Church, Ireas. North Ashland. 155,000 tons; steam; breaker and washer. John Veith, supf.
Coaldale Schnylkill Ry, 118.	Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 S. Third St., Joseph S. Harris, prest.; S. Shepherd, seey, and treas; W. D. Zehner, mgr., Cap. 8tk, 8435,650. Lehigh, Nos. 8, 9, 10, 11 and 12, 756,200 tons; steam and horsey breaker. R. C. Luther, 804.
33 3 3	Co. De a V Co. Charle Shuft 100 000 tons, tonne, broaden and me home C D (

Derringer Lazerne Coxe Bros, & Co. Cross Creek. Shaft, 192,000 tons; steam; breakers and washers. E. B. Coxe, supt. (P. O. Drifton) ky, 563. Diekson City, Laekawanna | Elk Hill Coal & Iron Co., Seranton, Pa., 3425 N. Main av. Wm. H. Richmond, prest, treas, and mgr., Ry, 213, 505.

Elk Hill Coal & Iron Co., Seranton, Pa., 3425 N. Main av. Wm. H. Richmond, prest, treas, and mgr., Patrick Riche, supt. Town

Drifton

Eagle Hill.

Edwardsville

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

Ry. 118, 393. Dunmore Ry. 252,

Duryea ...... La Ry, 209, 252, 393.

COUNTY.

### COAL-ANTHRACITE-(CONTINUED)

Luzerne Coxe Bros, & Co. Cross Creek. Shaft, 192,000 tons; steam. E. B. Coxe, supt.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Old Forge Coal Co., Ltd., New York City, I Broadway, John A. Mears, prest, and mgr.; J. Alton Davis, seey.; C. S. Crane, treas. Cap. stk. \$90,000. Columbia and Pho-nix. Sharts and tunnel, 300,000 tons; steam; breaker.

Lackawanna Murray & Co. M. J. Murray, prest, and supt.; Thomas Brown, seey.; John Carney, treas.; A. J. Murray, mgr. Cap. stk. \$25,000. Murray's. Shaft, 25,000 tons; steam; breaker. Lazerne Babylon Coal Co., Scranton, Pa. T. H. Watkins, prest.; W. G. Parke, seey.; C. D. Simpson, treas. Cap. stk. \$200,000. Babylon. Shaft, 225,000 tons; steam; breaker. James L. Crawford, supt.

Lazerne Cove Bros, & Co., Drifton, Pa. Cross Creek Collieries, Slope, 192,000 tons; steam; breakers and washers, E. B. Cove, supt.

de Hill. Schuylkill Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and fig.,; F. P. Kaercher, seey.; W. A. Church, treas, Eagle Hill. 167,000 tons; steam; breaker, R. C. Luther, squ., 588.

vardsville . Luzerne The Kingston Coal Co., Kingston, Pa. Daniel Edwards, prest, and mgr.; Elliott R. Morgan, secy, and Ry, and P. O. Kingston treas. Cap. stk. \$1,000,000. Kingston. Shafts, 500,000 tons; steam and compressed air; 2 breakers.

Ky, and F. O. Kingston 209.	treas. Cap, stk. \$1,000,000. Kingston. Snarts, 500,000 tons; steam and compressed air; 2 breakers G. Willym Edwards, supt.
Rv. 578.	Excelsior Coal Co., Shamokin, Pa. A. Robertson, prest.; C. W. Kingsley, seey, and treas.; A. D. Robertson, nigr. and supt. Excelsior. Slopes and tunnels, 208,000 tons; steam and horse; breaker.
Exeter Luzerne Ry, Pittston 200, 213, 393,	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey, Win. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk, \$650,000. Exeter. Shaft, 47,227 tons; steam; breaker.
**	Stevens Coal Co., Pittston, Pa. (West Side). Mito J. Wilson, prest.; C. W. Wesner, seey.; F. E. Stevens treas.; A. B. Stevens, mgr. Cap. stk. \$200,000. Stevens. Slope; steam; breaker (developing).
Fell Lackawanna Ry, and P. O, Carbon- dale 213, 502,	John Murrin, Fall Brook, Tunnel, 1,900 tons; steam; breaker,
Gilberton Schuylkill Ry, 563, 578,	Draper Colliery, Pottsville, Pa. H. L. Williams, gen. mgr. and supt. Cap. \$500,000. Draper. Slopes and tunnels, 220,000 fons; steam; coal breaker and washer.
** **	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S, Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Gilberton, 255,600 tons; steam; breaker. John Veith, supt.
54	Stoddart Coal Co. Chas, E. Breckons, prest.; Guy C. Irish, secy, and treas.; Wm, J. McCarthy, mgr, and supt. Cap. stk. \$25,000. Stoddart. 75,000 tons; steam; breaker and washer.
Girardville, Schuylkill Ry, 393, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, freas., Preston Nos, 2 and 3, Girard and Hammond, 296, 800 fons; steam; breakers. John Veith, sup.
Glen CarbonSchnylkill Ry, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Richardson, 13,500 tons; steam; breaker, R. C. Luther, supt.
Gowen Luzerne Ry, 563.	Coxe Bros, & Co., Drifton, Pa. Cross Creek. 192,000 tons; steam; coal breakers and washers. E. B. Coxe, supt.
Harwood Luzerne Ry, 578.	Pardee Sons & Co., Lattimer Mines, Pa. C. Pardee, ngr. Cap. \$500,000. Harwood. Slopes, 215,000 tons steam; coal breaker and washer. A. W. Drake, supt.
Highland Luzerne (P. O. Jeddo) Ry. 393,	G. B. Markle & Co., Jeddo, Pa. Highland Nos. 1 and 2. Slopes, 200,000 tons; steam; coal breaker. John Markle, supt.
Hollywood Luzerne (P. O. Lattimer Mines) Ry, 578.	Calvin Pardee & Co., Lattimer Mines, Pa. C. Pardee, mgr. Cap, \$509,000. Hollywood. Slopes, 220,000 tons; steam; coal breaker and washer. A. W. Drake, supt.
Humboldt,, Luzerne (P.O.Hazelton)Ry, 333.	Linderman & Skeer, South Bethlehem, Pa. Cap. \$1,200,000. Humboldt Mine. Slope, \$4,000 tons; stean and horse; breaker. Jas. E. Roderick, supt.
loulett Schuylkill ky.and P.O. Pottsydle 578, 393, 563, 570,	Philadelphia & Íreading Coal & Iron Co., Philadelphia, Pa., 227 8, Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, secy.; W. A. Claurch, treas. Good Spring. 54,000 tons; steam; breaker. R. C. Lutther, supt.
Ry. 118, 393.	G. B. Markle & Co. Jeddo Nos, 3 and 4. Shafts, 299,200 tons; steam: coal breaker. John Markle, supt.
Jermyn Lackawanna Ry, 213, 505.	Belaware & Hudson Canal Co., Scranton, Ph., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$90,000,000. Jermyn No. 1 shaft 198,500 tons; steam and horse; breaker. Andrew Nicol, supt.
41	Edgerton Coal Co., Ltd., Scranton, Pa. C. D. Simpson, prest.; T. H. Watkins, seey.; W. G. Parke, treas Cap. stk. \$20,000. Edgerton. Tunnels, 250,000 tons; steam; coal breaker. Jas. L. Crawford, supt.
55	Westside Coal Co. S. D. Davis, prest, and mgr.; J. Alton Davis, secy. Cap. \$4,000. Sunshine. Tunnel 10,000 tons; steam; breaker. John F. Nicholson, supt.
Kingston Auzerne Ry, 200.	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe seey.; Win, C. Alderson, freas.; W. A. Lathrop, mgr. and supt. Cap. 8tk, 8550,000. Maltby. Shaft 31,600 tons; steam, breaker.
Laffin Luzerne Ry. 213,	Annora Coal Co., Wilkes Barre, Pa. Charles Parrish, prest, and mgr.; Wm. C. Allen, seey.; Theo, F. Ryman, treas. Cap. stk. \$500,000. Annora. Slopes and tunnels, 165,000 tons; steam; breaker. John N. Conyngham, supt.
Lansford Carbon Ry. 118.	Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 S. Third st., Jos. S. Harris, prest.; S. Shepherd seey, and treas; W. D. Zelmer, mgr. and supt. Cap. stk, 844,358,650., Collieries, Nos. 4, 5 and 6, 240,400 tors; Steam and horse; breaker.
Lattimer Mines Luzerne Ry, Milnesville 398,	Pardee Bros, & Co. C. Pardee, mgr. Cap. \$500,000. Lattimer. Slopes, 215,000 tons; steam; breaker and washer. A. W. Drake, supt.

# COAL ANTIHRACITE (CONTINUED)

	TION OF	
	S, WATE	POINT.
Town	AND	COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

# Laurel Run . . Luzerne (P. O. Wilkes Barre) Ry, Ashley 118.

- Red Ash Coal Co., Wilkes Barre, Pa., is Coal Exchange. Geo. H. Parrish, prest., W. Leavenworth, seey and trens.; M. B. Williams, ingr. Cap. 848, \$400,000. Red Ash. Nos. 1 and 2. Slopes, 358,400 tons, steam; 2 breakers. F. H. Garrahm, shpt.
- Newport Coal Co., Willkes Barre, Pa. Chas, Parrish, prest, and mgr.; Wm. C. Allen, seey, and treas. Cap, stk, \$300,000. Newport. Slopes, 85,000 tons; steam, coal breaker. John Williams, supt.
- Llewellyn. Ry. 57 Locust Dale Ry, 578.
- Albright Coal Co. James Archbald, prest.; Joseph A. Archbald, secy. and treas. Cap. 8tk, \$290,000. Slope, 200,000 fons; steam. James Archbald jr., supt. .Schuylkill Schnylkiil Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and ugr.; F. P. Kacreher, seey.; W. A. Church, treas. Keystone and Potts. 56,000 tons. steam: breaker.
- Locust Gap Northumberland Ry, 393, 528, 578,
  - Philadelphia & Reading Coat & Iron Co., Philadelphia, Pa., 227–8. Fourth st. A. A. McLeod, prest, and mgr., F. P. Kaercher, see, W. A. Church, treas. Monitor, Locost Gap and Locust Spring. 490,290 tons; steamy breaker, John Verill, supt.
- Northumberland P.O.Pottsville) Ry.578. Lorberry Jn . . Schnylkill (P. O. Ravine Ry, 578.
- Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Merriam. 129,000 tons; steam; breaker. John mgr.; F. P. Veith, supt.
- Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227/8. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Old Lincoln. 182,800 fons: steam; breaker. R. C. Luffer, supt.
- Lost Creek...., Schuylkill Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third St. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Win. C. Alderson, treas.; W.A. Lathrop, mgr. and supt. Cap. 8tk, 850,000. Packer Nos, 2 and 4, 223,000 tons; steam; breaker.
- Luzerne. Ry. 393.

Lykens

- Luzerne Plymouth Coal Co., Wilkes Barre, Pa., Coal Exchange, Black Diamond, Shaft, 250,000 tons; steam and compressed air; breaker, James B., Davies, supt.
- Dauphin Lykens Valley Coal Co., Philadelphia, Pa., 233 8, Fourth st. 4, A. Wistar, prest.; N. Whiteman, seey, A. Haviland, treas: I. A. Stearns, mgr. Short Mountain, Tunnel, drift and slopes, 255,000 tons steam and electricity; breaker and washer, T. M. Williams, supt. Mahanoy City, Schuyikill Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S, Fourth St. A, A, McLeod, prest, and mgr.; F, P, Kaercher, seey.; W, A, Church, treas. Emwood, Mahanoy City, North Mahanoy, Schuyikill, Tunnel Kidge, Mahanoy and Jig House, 635,000 Ion; 635,000 Ion; and washer, John Veildi.
- Muhanoy Plane, Schuylkill Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227/8, Fourth st. A. A. McLeod, prest, and nigr., F. P. Kaercher, seey., W. A. Church, treas. West Bear Ridge, 88,00 tons; steam, breaker. mgr., F. P. Kaere John Veith, supt.
- Maple Dale e Dale — .Schnylkill , O, and Ry, Potts-ville 578, 393, 563, 570.
  - Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 8. Fourth st. A. A. McLeod, prest, and ngr.; F. P. Kaercher, sec., W. A. Church, treas, Ellangowan, 466285 tons, steam, breaker, John mgr.: F. P. Veith, supt
- Marshwood .Lackawanna Ry, Dickson City 213.
- Moosie Monutain Coal Co., Seranton, Pa. E. B. Leisenring, prest., W. W. Watson, seey.; Chas. P. Ford, mgr. and supt. Cap stk. 8100,000. Moosie Mountain. Slope and drifts, 75,000 tons, steam, breaker
- Middle Creek Schnylkill P. O. and Ry. Potts-ville 578, 393, 562, 570. Middleport . Ry, 578,
- Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227–8, Fourth st., A. A., McLeod, prest, and ugr.; F. P. Kaercher, seey., W. A. Church, treas., Middle Creek, Shaft, 32,001 tons, steam; breaker, R. C. Luther, supt. Schnylkill Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 S. Third st., Jos. S. Harris, prest., S. Shepherd, seey, and treas; W. D. Zehner, mgr, and supt. Cap. stk. 814,388,650. Kaska William, 57,000 tons, steam and horse; breaker.
- Milnesville Ry, 393,
  - Lazerne A. S. Van Wickle, Hazleton, Pa. Cap. s300,000. Milnesville. Slope and open pit. 250,000 tons; steam; breaker and washer. J. I. Hollenbeck, sapt.
- Miners Mills. Ry, 213.
  - Luzerne Delaware & Hudson Canal Co., Seranton, Pa., 2301 Providence pl. R. M. Olyphant, prest,; F. M. Olyphant, seey.; C. A. Walker, treas.; H. G. Voung, ngr., Cap. 8th, \$30,000,000, Plne Ridge, Shaft, paggot tons, steam and lorse; breaker, Andrew Med. 8upt.
- Waddell & Co., Pittston, Pa. Cap. \$100,000. Bennett. Shaft, 72,000 tons; steam; breaker. Robert Me-Cutchun, supt.
- Mocanaqua (P. O. (P. O. Shickshinny Ry, 563,
- West End Coal Co., Shiekshinny, Pa. Chas. M. Conyngham, prest., Wm. C. Allen, seey.; M. H. Arnold, freas; John Teasdale, mgr. Cap. stk. \$900,000. West End. Tunnel, 220,000 fons; steam; breaker, Lewis L. Sarge, supt.
- Moosie
- osie : "Lackawanna Robertson & Law. Cap. \$15,000. Katy Did. Slopes, 25,000 tons; steam; breaker. John Hastie, supt. Ry. 213.
- Morea : Schuylkill (P. O. Morea Colfiery) Ry, 563.
- Dodson, Coal, Co., Bethlehem, Pa., C. M. Dodson, prest.; Josiali Bachman, seey, and treas.; E. L. Bullock, mgr. and supt. Cap. 8tk, \$300,000. Morea. Slope and open pit, 190,000 tons; steam, coal breaker
- Mt.Carmel.Northumberl'd Ferndale Coal Co. E. J. Phillips, mgr. and supt. Cap. stk, \$100,000. Ferndale, Slopes, 100,000 tons; steam and horse; breaker. Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 8. Fourth 8t. A. A. McLeod, prest, and gen, mgr.; F. P. Kaerelier, Secy.; W. A. Church, treas. Reliance. 130,000 tons; steam; breaker and washer. John Veith, supt.
- Thomas M. Righter & Co. Slopes, 150,000 tons; steam; breaker
- Mt. Laffee..... Schnylkill (P. O. Pottsville) Ry. 578.
  - Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227-8, Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Beachwood, 65,000 fons; steam, breaker. R. C. Lather, supt.
- Luzerne Ry, 563, 118,
- Susquehanna Coal Co. Trying Stern, mgr. Susquehanna. Shafts and slopes; steam and horse; breaker. George Morgan, supt.
- Nesquehoning . . Carbon Ry, 118.

  Lehigh Coal & Navigation Co., Philadelphia, Pa., 234 8. Third st. Joseph 8. Harris, prest.; 8. Shepherd, seev, and treas.; W. D. Zehner, mgr, and supt. Cap. stk. \$1,388,650. Colliery No. 1, 256,500 tons; steam and horse; breaker and washer.

# COAL-ANTHRACITE-(CONTINUED)

	<del>_</del>
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF £,000 FOUNDS, KIND OF FOWER USED, COAL BREARERS, WASHERS, OKE OVENS, AND NAME OF MINE SUPERINTEMBERY.
TOWN AND COUNTY.	Coal Distance ( National Coal Coal Coal Coal Coal Coal Coal Co
Olyphant Lackawanna Ry, 213 and 505.	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olyphant, prest; F. M. Olyphant, seey.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$30,000,000. Eddy Creek, Grassy Island and Olyphant No.2. Shafts, 260,400 tons; steam and horse; breaker. Andrew Nicol, supt.
** **	Orlando S. Johnson, Scranton, Pa., P. O. Box 425. Cap. \$250,000. Green Ridge. Slope, 150,000 tons; steam; breaker. Wm. S. Boyd sr., supt.
	Lackawanna Coal Co., Scranton, Pa., P. O. Box 425. John S. Law, prest.; E. B. Sturges, seey, and treas.; O. S. Johnson, gen. mgr. Cap. \$400,000. Lackawanna. Shaft, 350,000 tons; steam. Wm. Harper, supt.
** **	Moosic Mountain Coal Co., Scranton, Pa. E. B. Lelsenring, prest.; W. W. Watson, seey, and treas.; Charles P. Ford, mgr. and supt. Cap. stk. \$100,000. Moosle Mountain. Slope, 100,000 tons; steam; breaker and washer.
Ry. Hazelton 393, 563.	Coxe Bros, & Co. Cross Creek. Slope, 190,000 tons; steam; breaker and washer. E. B. Coxe, supt.
Parsons Luzerne Ry, 118 and 213.	Delaware & Hudson Canal Co., Seranton, Pa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey.; C. A. Walker, treas.; H. G. Young, mgr. Cap. stk. \$30,000,000. Laurel Run. Slope, 133,000 tons; steam and horse; breaker. Andrew Nicol, supt.
** **	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey; Win, C. Alderson, treas; W. A. Lathrop, meaker, and supt. Cap. stk. 859,000. Mineral Spring and Coal Brook. Slopes, 30,500 tons; steam; breaker.
Peckville Laekawanna Ry, 505, 213,	Blue Ridge Coal Co., Scranton, Pa., 12 Library Block. James N. Rice, prest, and mgr.; H. C. Reynolds, secy.; N. E. Rice, treas. Cap. stk. \$100,000. Blue Ridge. Slope and shaft, 200,000 tons; breaker.
0	New York & Scranton Coal Co., Edward B. Sturges, prest.; John B. Kerr, vprest.; W. W. Paterson, seey., supt. and mgr. Cap. stk, \$300,000. Ontario and Sturges. Shafts, 160,000 tous; steam and electricity.
**	Rush Brook Coal Co. John S. Jenkins, prest, and mgr.; E. H. Coray jr., seey.; John F. Collier, treas. Cap. stk, \$100,000. Rush Brook. Shafts and tunnel, 100,000 tons; steam; breaker. Thomas Langan, supt.
** = **	Sterrick Creek Coal Co., Seranton, Pa., 118 Wyoming av. J. J. Albright, prest.; James Archbald fr., seey., mgr. and supt.; Wm. T. Smith, treas. Cap. stk. \$100,000. Sterrick Creek. Shafts and drift, 150,000 lones; steam; breaker.
Phoenix Park. Schnylkill Ry, and P. O. Pottsville 393, 563, 570, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 8. Fourth St. A. A. McLeod, prest, and mgr.; F. P. Kaercher, secy.; W. A. Church, treas. Phoenix Park No. 3, 42,000 tons; steam; breaker, R. C. Luther, supt.
Pine GroveSchuylkill Ry, 578.	John D. Filtz. Cap. \$1,200. Big Diamond. Open pit, 1,800 tons; horse. Samuel Gay, supt.
*	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 8, Fourth st. A. A. Mellead, prest.; Franklin P. Kaercher, seey.; W. A. Church, treas; C. E. Henderson, mgr. Lincoln. Slope, 400,000 tons; steam; breaker and washer. John Maguire, supt.
Pittston Luzerne Ry, 200, 213, 393.	Butler Mine Co., Ltd., Corning, N. Y., 203 Pine st. A. Houghton jr., prest.; S. B. Bennett, seey, and mer.; O. W. Bump, treas. Cap. 8tk. \$50,000. Butler, Schooley and Fernwood. Shafts, 225,000 tons; steam; breaker, Richard Appliely, supt.
**	Clear Spring Coal Co., 203 Exeter st. John L. Cook, prest., mgr. and supt.; W. H. Gerhart, seey.; A. McI. Dermott, treas. Cap. stk. \$320,000. Clear Spring. Shaft, 250,000 tons; steam; breaker.
	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest; J. R. Fanshawe, seey; Win. C. Alderson, treas; W. A. Lathrop, ingr. and supt. Cap. stk. 8650,000. Heidelburg. Shaft and slope No. 1, 0,0,000 tons; steam; breaker.
· · ·	Newton Coal Mining Co. F. T. Patterson, prest.; E. L. Fuller, seey.; Wm. Hill, treas.; John A. Meurs, ngr. Cap, stk, \$200,000. Seneca, Ravine and Twin. Shafts, 300,000 tons; steam; breaker, J. Michael Lanaghan, supt.
Plainsville Luzerne Ry, 393,	Delaware & Hudson Canal Co., Scranton, Pa., 290. Providence pl. R. M. Olyphant, prest; F. M. Olyphant, secy.; C. A. Walker, treas; H. G. Young, mgr. Cap. 8th, \$60,000,000. Mill Creek and Delaware. Slope and shaft, 28,300 tons; steam and horse; breaker. Andrew Nicol, supt.
**	Lehigh Valley Coal Co., Philadelphia, Pa., 228 South Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas.; W. A. Lathrop, mgr. and supt. Cap. stk. \$550,000. Enterprise. Prospect, Onkwood, Henry and Midvale. Shafts and slope, \$58,200 tons; steam; breaker.
Plymouth Luzerne Ry. 200.	Delaware & Hudson Canal Co., Scranton, Pa., 2301 Providence pl. R. M. Olynhant, prest, F. M. Olynhant, secy.; C. A. Walker, freas; H. G. Young, mgr. Cap. 8t., \$30,000,005. Boston and Plymouth Nos. 2, 3, 4 and 5. Shafts, 673,00 lons; steam and horse; breakers. Andrew Nicol. supt.
**	Kingston Coal Co., Kingston, Pa. Daniel Edwards, prest, and mgr.; Elliott R. Morgan, seey, and treas. Cap. stk, \$1,000,000. Gaylord. Slope, 400,000 tons; steam and compressed air; breaker and washer. George Picton, sunt.
14	Lehigh & Wilkes Barre Coal Co., New York City, Central Bidg. J. R. Maxwell, prest.; W. T. Zell, seey, and treas;; Elmer H. Lawall, gen, supt. Lamer No. H. Nottingham No. 15 and Reynolds No. 16. Shafts and slope, 1,000,000 tons; Steam breakers. M. R. Morgans, Supt.
**	Parrish Coal Co., 235 W. Main st. Chas. Parrish, prest.; Geo. P. Lindsay, seey.; H. H. Ashley, treas, and mgr. Cap. stk. \$400,000. Parrish. Slopes, 360,000 tons; steam; breaker. Thos. R. Evans, supt.
40 44	Plymouth Coal Co., Wilkes Barre, Pa., Coal Exchange, Dodson, Shaft, 250,000 tons; steam and compressed air; 1 breaker, James B. Davies, supt.
PottsvilleSchnylkill Ry, 393, 578, 597, 570.	Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, secy.; Wm. C. Alderson, treas; W. A. Lathrop, mgr. and supt. York Farm.
Priceburg . Lackawanna Ry.ValleyJunction 213,	John Jermyn, Seranton, Pa., 119 Wyoming av. W. M. Jermyn, 119 Jermyn Nos. 3 and 4. Shaft and slope; steam; breakers. E. B. Jermyn, supt.

Rappahannock Schuylkill Lehigh Valley Coal Co., Philadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest; J. R. Fanshawe, (P. G. Girardville) Ry. secy.; Wm. C. Alderson, trens.; W. A. Lathrop, ingr. and supt. Cap. stk. 852,000. Packer No. 5 collegy, 164,000 tons; steam, breaker.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

Rendham .. Lackawanna Ry. Minooka, 200, 213.

Ridgewood . . . Ry, 563, 820,

Sandy Run . . . Ry, 118, 393.

St. Clair......Sch Ry, 563 and 578,

COUNTY.

#### COAL ANTHRACITE-(CONTINUED)

Rayen Run..... Schnylkill Ry, 393, | Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas, Girard Mammoth. 112,000 tons; steam; breaker, John Veith, supt.

St. Nicholas — Schuylkill — Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaereher, seegy; W. A. Church, treas, Boston Run, Bear Run, St. Nicholas, Suffolk and Maple Hill. 693,200 tonis; steam; brackers, John Veith, supt.

Lackawanna Jermyn & Co., Scranton, Pa., 119 Wyoming av. Cap. \$1,000,000. Jermyn Nos, 1 and 2. Shafts, 500,000 tons; steam; 2 breakers. Samuel Baker, supt.

. .Luzerne Keystone Coal Co., Wilkes Barre, Pa., 202 E. Market st. S. L. Brown, prest, Chas. H. Gardner, secy, and treas, Cap. stk. \$100,000. Keystone, Slope, 110,000 tons; steam; breaker. James H. Hughes, supt.

Schnylkill Elm Creek Mining Co., Scranton, Pa., Commonwealth Bldg. Wm. H. Taylor, prest.; E. P. Kingsbury, seey, and treas. Elm Creek. Shaft developing).

"Luzerne N. S. Kemmerer & Co., Sandy Run. Slope, 110,000 fons; steam; breaker and washer. Walter Leisen-

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 8, Fourth st. A. A. McLeot, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Pine Forest and Eagle, 13,500 tons; steam; breaker. R. C. Luther, supt.

hy, 118, 393.	ring, supt.
Scranton Lackawanna Ry. 118, 209, 218, 505.	Clark Tunnel Coal Co., 219 W. Market St. Cap. stk. \$10,000. Clark. Tunnel, 5,000 tons; steam; breaker, James Flynn, supt.
0	Delaware & Hudson Canal Co., Seranton, Pa., 230 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, seey; C. A. Walker, treas; H. G. Voung, mgr., Cap 8tk, Sa00,0,0,0. Dekson, Legaltic Creck and Marvine shatts, Von Storch. Shaft and slope, 889,800 tons; steam and horse; breaker. Andrew Nicol, supt.
** **	Elliott, McClure & Co., 323 Quincy av. Edward A. Sibley, treas.; James C. McClure, mgr. and supt. Sibley, Shaft, 140,000 tons; steam, breaker.
**	New York, Susquehanna & Western R. R. Co., New York City, 45 Cortlandt st. Smon Borg, prest.; J. P. Rafferty, seey.; R. C. Shlmeall, treas.; F. P. Moore, gen. agt. 4,200,000 tons. Win. J. Lewis, supt.
Shamokin Northumberl'd Ry, 393, 528, 578.	J. Langdon & Co., Elmira, N. Y. C. J. Langdon, prest.; W. L. Sampson, seey.; C. L. Stillman, treas.; C. M. Underhill, mgr. Nellson. Shaft, 225,000 tons; steam; breaker, washer. H. S. Gay, supt.
" " "	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 27 S. Fourth st. A. A. Mellood, prest, and mgr., F. P. Kaereher, seey.; W. A. Church, treas. Buck Ridge, Big Mountain, Peerless, Henry Clay, Sterling, Burnside and Bear Valley, 741,660 tons; steam, breakers and washer. John Veith, supt.
. "	Union Cond Co., Erle, Pa., C. H. Strong, prest.; M. H. Taylor, seey.; T. M. Little, treas, Cap. stk, \$00,000, Pennsylvania "H" Ridge and "H" Swamp. Slopes and tunnels, 599,000 tons; steam; 3 breakers, Holden Chester, supt.
Shenandoah Schuylkill Ry, 393, 673, 578.	Cambridge Coal Co., G. D. Jones, prest.; K. Plerce, secy.; David R. James, treas., J. C. McGinnis, mgr. and supt. Cap. 8tk, \$12,000. Cambridge. Drift, 18,000 tons; steam; breaker.
	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. Melleud, prest, and nagr., F. P. Kaercher, seey., W. A. Church, treas. Indian Ridge, Kohinoor, Shenandoah City, Turkey Run and West Shenandoah, 1,045,124 tons; steam; breakers and washer. John Velth, supt.
Shickshinny Luzerne Ry, 209.	E. S. Stackhouse. Salem. Tunnels, steam, breaker (developing).
Silver Creek — Schuylkill Ry, New Philadeiphia 578.	Philadelphia K Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth st. A. A. McLeod, prest, and mgr.; F. P. Kaercher, seey.; W. A. Church, treas. Silver Creek. Shaft; steam, R. C. Luther, supt.
Stockton	Coxe Bros. & Co., Drifton, Pa. Cross Creek. Slope, 192,000 tons; steam, breaker and washer. E. B. Coxe, supt.
31	Linderman & Skeer, South BeHitchem, Pa. Cap, \$1,200,000. East Sugar Loaf. Slope, 300,000 tons; steam and horse; breakers. Jas. E. Roderick, supt.
8ugar Notch Luzerne Ry, 118, 393.	Lehigh & Wilkes Barre Coal Co., New York City, Central Hidg. J. R. Maxwell, prest.; W. T. Zell, seey, and treas.; Elmer H. Lawall, gen, supt. Sugar Notch, No. 9. Shaft, 183,601 tons; steam; breaker, M. R. Morgams, supt.
Taylorville Lackawanna (P. O. Minooka Ry. 118, 209.	Greenwood Coal Co., Ltd., Scranton, Pa., P. O. Boy 381. R. G. Brooks, prest.; T. H. Dale, see; and treas- Cap, 8tk, \$100,000. Greenwood. Shaft and drift, 150,000 tons; steam; breaker. W. G. Thomas, supt.
Taylorsville Schnylkill Ry, and P. O. Potts- ville 578, 393, 563, 570.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLend, prest, and ugg.; F. P. Kaercher, seey., W. A. Church, treas. Glendower, 75,300 tons, steam, breaker. R. C. Luther, supt.
Thomaston Schuylkill (Not a P. O.) Ry. 575 .	Philadelphia & Reading Coal, & Iron Co., Philadelphia, Pa., 227-8, Fourth st., A. A. McLeod, prest, and ngg; F. P. Warerher, seey.; W. A. Church, treas, Thomaston, 84,000 tons, steam; breaker, R. C. Luther, supt.
Throop Lackawanna Ry, 505.	Pancoast Coal Co. C. M. Sanderson, prest.; E. R. Bellman, seey, and treas.; C. D. Sanderson, gen. supt. Pancoast. Shaft, 175,000 tons; steam; breaker. J. V. Birlley, supt.
Tomhicken Luzerne (P. O. Sugarloaf   Ry. 393, 563.	Coxe Bros, & Co., Drifton, Pa. Cross Creek. Slopes, 192,000 tons; steam; breaker and washer. E. B. Coxe, supt.
Tower City Schuylkill Ry, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and ugg.; F. P. Karreher, seey.; W. A. Church, treas. Brookside, 349,699 tons, steam; breaker. R. C. Luther, supt.
Tremont Schuylkill Ry, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and mgr.; F. P. Kagreller, seey.; W. A. Church, treas. East Franklin, 34,500 tons; steam; breaker, R. C. Luther, supt.
Trevorton, Northumberland Ry, 578.	Philadelphia & Reading Coal & Iron Co., Philadelphia, Pa., 227 S. Fourth St. A. A. McLeod, prest, and mgr.; F. P. Kaereher, seey., W. A. Church, treas. North Franklin, 44,300 tons; steam: breaker, John Vetth, supt.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

# COAL-ANTHRACITE-(CONTINUED)

ATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, AL OUTPUT IN TORS OF 2,000 POUNDE, KIND OF POWER USED, CORE OVENS, AND NAME OF MINE SUPERITHMENDENT.  DIEK City, Central Ridg. J. R. Maxwell, prest.; W. T. Zell, seey, pp. 3,000 pp. 3,000 pp. 3,000 pp. 3,000 pp. 3,000 pp. 4,000 pp. 4,0
ipt. Wanamie No. 18. Slopes, 163,400 tohs; steam; breaker, M. E. B. Leisenring, prest.; Geo. H. Myers, seey, and treas.; Mark 8, \$50,000. Midvalley, Slope, 200,001 tohs; steam; breaker, 1, Pa., 2301 Providence pl. R. M. Olyphant, prest.; F. M. Olyphant, oung, mgr. Cap. stk. \$50,000,000. Baltmore, Slope, tunnel and 33,000 tohs, steam, horse; breakers. Andrew Micol, supt. rest.; M. L. Dreisbach, seey, and treas.; J. Roberts jr., mgr. d funnel, 150,000 tohs; steam; breaker. Paniel Lerois, supt. l., Ashley, prest.; S. J. Tohkin, seey, and mgr. Chas. P. Hint, edn. Shaft and slope, 120,000 tohs; steam; breaker, S. J. Toh-Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, A. Lathrop, mgr. and supt. Cap. stk, \$650,000. Franklin, Slopes breaker.
8, \$50,000. Madvalley. Slope, 200,001 tons; steam; breaker. 1, Pa., 230. Providence pl. R. M. Olyphant, prest; F. M. Olyphant, coung, mgr. Cap., stk. \$60,000,008. Baltmore. Slope, tunnel and 13,006 tons, steam, horse; breakers. Andrew Nicol, supt. rest.; M. L. Dreisbach, seey. and Treas.; J. Roberts fr., mgr. d tunnel, 150,000 tons; steam; breaker. Daniel Lerois, supt. l. Ashley, prest.; S. J. Tonkin, seey. and mgr.; Chas. P. Hind, chi. Shaft and slope, 120,000 tons; steam; breaker. S. J. Ton- Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, A. Lathrop, mgr., and supt. Cap. stk, \$650,000. Franklin. Slopes breaker.
oung, mgr. Cap. stk. \$30,000,000. Baltmöre, Slope, tumfel and \$3,000 tons, steam, horse; breakers. Andrew Micol, supt. rest.; M. L. Dreisbach, seey, and treas.; J. Roberts jr., mgr. d tunnel, 150,000 tons; steam; breaker. Baniel Lerois, supt. I. Ashley, prest.; S. J. Tonkin, seey, and mgr.; Chas. P. Himt, ein. Shaft and slope, 120,000 tons; steam; breaker. S. J. Ton-Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, A. Lathrop, mgr., and supt. Cap. stk, \$650,000. Franklin, Slopes breaker.
d tunnel, 150,000 tons; steam; breaker. Daniel Lerois, sipt. I. Ashley, prest.; S. J. Tonkin, seey, and mgr.; Chas. P. Hint. Yein. Shaft and slope, 120,000 tons; steam; breaker. S. J. Ton- Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, A. Lathrop, mgr. and supt. Cap. stk, 8550,000. Franklin. Slopes breaker.
7ein. 288 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, A. Lathrop, nur. and supt. Cap. 8tk, \$650,000. Franklin. Slopes breaker.
A. Lathrop, mgr. and supt. Cap. stk, \$650,000. Franklin. Slopes breaker.
Fork City, Central Bidg, J. R. Maxwell, prest.; W. T. Zell, seey, ppt. Stanton No. 7, South Wilkes Barre No. 5, Empire No. 4 and 1 slope, 463,280 tons; steam; breakers. M. R. Morgans, supt.
ge Bldg. Israel W. Morris, prest.; J. M. Crane, seev. and treas. 4 and 2. Shaft, 225,000 tons; steam; breaker. Alfred Smith, supt.
), Box 427, W. G. Payne, prest.; E. S. Dolph, seey.; I. P. Hand, supt. Cap, stk. \$100,000, Dolph, Tunnel, 100,000 tons; steam;
, Commonwealth Bidg. E. B. Leisenring, prest,; Chas. P. Ford, P. Conner, mgr, and supt, Cap. stk, \$100,000, Mt. Jessup, Slope, her.
N. Main av. G. M. Lewis, prest.; W. H. Winton, seey.; B. M. \$100,000. Mt. Vernon. Tunnel, 100,000 tons; steam; breaker. R.
Third National Bank Bldg. Jos. A. Albright, prest.; James Wird, T. Smith, treas. Cap. stk. \$100,000. Sterrick Creek. Shafts r.
2033 North Main av. W. W. Winton, prest.; A. H. Winton, Cap. 8tk, \$20,000, S. V. White, Tunnel, 140,000 tons; steam:
a., 228 S, Third st. Elisha P, Wilbur, prest.: J. R. Fanshawe, seey.; rrop, mgr, and supt. Cap. stk, \$650,000. Wyonning. Shaft, \$1,000
T. H. Watkins, prest.; W. G. Parke, secy.; C. D. Simpson, treas. Shaft, 337,500 tons; steam; breaker. James L. Crawford, supt.
oal Exchange, Hollenback Bldg. Fred J. Beach, prest.; J. B. cas.: Jacob Schaffert, mgr. Cap. stk. \$10,000. Crescent Mine No. 1.
. David Bell, supt.

# COAL-BITUMINOUS

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,600 POUNDS, KIND OF POWER USED,

Town	AND COUNTY.	COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.
	Armstrong ast Brady 11.	Bell, Lewis & Yates Coal Mining Co., Buffalo, N. Y. Geo, H. Lewis, prest.: Chas, Clifton, secy, and treas.; S. B. Elliott, mgr. Cap. stk, \$1,000,000. Adrian. Slopes, 375,000 tons; steam; 280 coke ovens. J. S. Fleming, supt.
Anandale Ry, 58		Hamilton Cannel Coal Co., Boyer's, Pa. Harry Hamilton, treas.; W. K. Hamilton, mgr. and supt. Cap. stk. \$25,000. Boyce. Tunnel.
Antrim . Ry. 2		Fall Brook Coal Co., Corning, N. V. Geo, J. Magee, prest.; John Lang, seey, and treas.; Anton Hardt, ngr. Cap. stk, 8100,000. Antrim. Drifts, 240,000 tons; horse and steam; washer; 157 coke ovens, 55,000 tons. Jas. Folloek, supt.

Somerset, E. J. Baker (local). Baker. Open pit, 50 tons; hand. Solomon Ash, supt. Bakersville. Ry. Somerset 42.

Robert T. Hull (local). Open pit, 2,800 tons: hand.

Baldwin, Allegheny Joseph Walton & Co., Pittsburg, Pa., 134 Water st. J. N. Banton, mgr. Cap. \$1,000,000. First Pool. (P. O. West Elizabeth) Drift, 40,000 tons; steam, horse and hand. Morris Kapt, supt.

Banksville ....Allegheny Roger Waitley, Pittsburg, Pa., Carson st. Chas. W. Waitley, seey, and treas.; Beecher Waitley, ngr. Ry.Pittsburg 11, 42, 175. Cap. stk. \$200,000. Enterprise. Slope, 223,000 tons; steam, washer. John Johnson, supt.

# COAL-BITUMINOUS- CONTINUED

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COEC OVERS, AND NAME OF MINE SUFFERINFEMENT.
TOWN AND COUNTY.	
Banning Fayette Ry, 42, 591,	The Morgan, Moore & Baine Co., Cleveland, Ohio, 801 and 803 Society for Savings Eddg. Geo, W. Morgan, prest, (**), W. Baine, seey.; F. K. Moore, treas. Cap. stk. \$100,000. Banning. Tunnel, 200,000 tons; steam. H. C. Burket, supt.
Beadling Allegheny Ry, 583,	Beadling Bros. Cap. \$200,000. Harrison. Stope, 100,070 tons; steam. Wm. Beadling, supt.
Beaver Falls Beaver Ry, 585, 591.	James Clayton, Eleventh st. (local). Cap. \$12,020. Beaver Falls. Drift, 10,620 tons; horse; 3 coke ovens.
Beechtree Jetterson Ry, 85,	Bell, Lewis & Vates Coal Mining Co., Buffalo, N. V. Geo, H. Lewis, prest, Chas, Clifton, seey, and freas.; S. B. Elliott, mgr. Cap. stk. \$1,000,000. Beechtree. Brifts, 375,000 tons; steam; breaker, 280 coke ovens. D. Fleming, supt.
Bellwood Blair Ry, 563, 566.	Great Bend Coal Co. R. L. Holliday, prest.; Fleming Holliday, seey.; John E. Bell, treas., mgr. and supt. Cap. stk. \$20,000. Nos. 2 and 4. Tunnel, 120,000 tons; horse.
Berlin . Somerset Ry, 42.	B. D. Morgan & Co. C. J. Baker, mgr. and supt. Cap. 85,000. Berlin. Open pit, 3,000 tons; hand.
Blumen , Clinton Ry, Westport 563,	Kettle Camp Coal Mining Co., Williamsport, Pa. Henry Parsons, prest; I. C. Russell, seey.; F. E. Gilem, treas.; Geo. L. Miller, mgr. and supt. Cap. stk. \$120,000. Kettle Creek, Drift, 250,000 tons; horse.
Blairsville Indiana Ry, 563.	Maher Coal & Coke Co. Thomas Maher, supt. Maher. Open pit, 24,099 tons; horse,
	J. M. Turner, Cap. \$25,000. Turner's. Drift, 20,000 tons, hand and horse.
	Leonard & Craig, Cap. \$10,000. Sterling No. 2. Drift, 31,000 tons; steam. Michael Craig, supt.
0	John Maurice & Son, (tap. 8tk, \$5,000). Ferndale. Open pit, 16,000 tons; horse. John V. Jones, supt.
	E. Eichelbarger, Cap. \$4,000. Fisher, Tunnel, 20,000 tons; horse, John Loyd, supt.
Ry., 563.	C. L. Snowdon & Co. Cap. \$25,000. Umpire. Drift, 92,359 tons; steam, 211 coke ovens. J. D. Simpson, supt.
California Washington Ry, 563.	California Coal Co., T. M. Jenkins, prest.; L. Z. Birmingham, seey., John W. Ailes, treas. Cap. 8tk. 850,000. Vigilant and Crescent. Slope, 750,000 tons; steam.
44 17	Cedar Hill Coal Co., Cap. \$5,000. Cedar H.H. Tunnel, 84,000 tons; horse, Chas. Bradford, supt.
Calumet Westmoreland Ry, 563,	Calumet Coke Co., Pittsburg, Pa., eor, Third av, and Wood st. M. K. Salesburg, prest, and treas.; W. S. Greene, seey. Cap, stk, \$200,000. Calumet. Shaft, steam; 225 coke ovens, 120,000 tons. S. M. Hawkins, supf.
Camden Alb glieny Ry, 563.	Bailey, Wilson & Co. James Wilson, mgr. Alliquippa. Drift, 114,000 tons; steam, W. W. Wilson, supt.
Cameron Cameron Ry 563.	Sinnemahoning Iron & Coal Co., Emporium, Pa. P. M. Parrott, prest. Tunnel, steam, washer, 100 coke ovens.
Ry, 586,	The Sterling Mining Co., New Lisbon, Ohio. N. F. Wood, prest.; H. D. Hileman, seey., W. H. Warner, treas, and mar. Cap. stk. sto.600. Sterling. Tunnel, 75,000 tons, electricity. Geo., Gould, supt.
By, 583,	Canonsburg Coal Co., Ltd. F. A. Upstall, seey, and treas. Cap. 8tk. \$48,000. Boon. Open pit. 425,000 tons; steam. E. T. Hitchman, supt.
Ry. 563.	Charleroi Coal Co. J. W. Moore, prest., M. J. Alexander, seey.; C. H. Ulery, treas.; Jesse K. Johnston, mgr. Cap. stk. \$100,000. Open pit, 108,000 fons, steam.
Ry, 583, 591.	W. J. Steen, Pittsburg, Pa. O. I. C. Open pit, 36,000 tons; horse, J. H. Bates, supt.
Ry, 805, 563,	Butlalo Coal Co., Butlalo, N. V., 257 Washington St. S. G. De Coureey, prest. F. S. Buell, treas., C. D. R. Stowitts, mgr. Cap. stk. \$1,000,000. Instanta. Drift, 175,000 tons, horse, James Maloney, supt.
(P. O. Rock Point Ry, 563 <sub>€</sub> 591,	L. S. Hoyt, Cap. 835,000. Baker. Open pit, 75,000 (ons. horse, U. Huswell, supt.
Coaldale , Bedford P. O. Sax Mile Run Ry, 317.	David Fluke. Elmira. Cap. \$0,000. Open pit, 10,000 tons. horse. Wm. Swope jr., supt.
Coalmont .Hunt ng lon Ry, 317.	A. H. & A. G. Hickes. Hickes. Tunnel, 12,950 tons; horse. A. George Hicks, supt.
Coalport Clearfield	samuel Hegarty. Oakland. Tunnel, 50,000 tons; horse, J. Melntare, supt.

ryona Coal Co., Philadelphia, Pa., 420 Walmut 8t, W. J. Nicolls, prest., J. F. Cooper, seey.; J. O. Nicolls, treas. Cap. stk. 850,000. Irvona, Nos. 1 and 2. Tunnel, 100,000 tons, horse; so coke ovens, 30,000 tons, John McNully, supt.

Collier Alleghemy E. W. Powers. Cap. 820,000. Hiskman. Tunnel, 65,000 tons; horse, J. Johns, supt.

Condron Station Cambria (P. O. Dysart 19), 195, ngr., Cap. stk. 85,000. Reddand Min e No. 1. Tunnel, stand. George Bell, supt.

Courting Washington Corey Gas Coal Co., Pittsburg, Pa., 95 Fifth av. J. B. Corey, treas, and mgr. Cap. stk. 8200,000. Buffalo. Turnel. 50,000 tons; horse. Henry Booyer, supt.

Tesson Cambria Cresson Coal & Coke Co., John R. Owell, mgr. and supt. Cap. stk. 875,000. Cresson. Shaft, 50,000 tons;

Cresson......... Cambria Cresson Coal & Coke Co., John K. Powell, mgr., and supt. Cap., stk, \$55,000. Cresson. Shaft, 20,000 tons: team.

Defance Bedford Sweet & Brown, Huntingdon, Pa. Cap., \$20,000. Brown, Nos. 1 and 2. Tunnel and slope, 97,700 tons: horse and steam. W. H. Sweet, supt.

Brayesburg 3.1. horse and steam. W. H. Sweet, supt.

Drayesburg ... Allegheny S. S. Crump & Co., Fittsburg, Pa., 8 Wood st. Amity. Open pit, 105,000 tons; horse. S. S. Crump, supt. By, 563.

Town

Dudley... Ry. 317.

Dunbar.

Dunlo ...

Edgewood.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

AND

Ry. Johnstown, 42, 563,

. Cambria

#### COAL-BITUMINOUS-(CONTINUED)

Du Bois......, Clearfield Bell, Lewis & Yates Coal Mining Co., Buffalo, N. V. Geo, H. Lewis, prest.; Chas, Clifton, seey, and treas.; By, H. 85, 413, S. B. Elliott, mgr. Cap. stk. \$1,000,000. Rochester. Slope, 560,000 tons; steam. John Reed, supt. Huntingdon E. F. Gould. Cap. \$5,000. Huntingdon. Open pit, 25,000 tons; horse and hand.

W. H. Sweet, Can. \$10,000, Oceans, Nos. 1 and 2, Tunnel, 50,000 tons; horse, nbar .......... Fayette | Reid Bros. Uniondale, Slope, 30,000 tons; steam; 74 coke ovens, 27,000 tons. Jas. L. Allen, supt. Ry, 563, 42.

gewood ..... Allegheny Corey Coal Co., Pittsburg, Pa., Fifth av. J. B. Corey, prest.; W. L. Dixon, mgr. and supt. Cap. 8tk. 553, 553.

Eleanor . . . . . Jefferson Bell, Lewis & Vates Coal Mining Co., Buffalo, N. V. Geo, H. Lewis, prest.; Chas, Clifton, seey, and treas.; By, Big Run 85. S. B. Elliott, mgr. Cap. stk. \$1,000,000. Eleanora. Drift, 200,000 tons; 100 coke ovens. Samuel Rime,

East Brady ... Clarion Brady's Bend Mining Co. C. F. Hartwell, ngr. Brady's Bend. Tunnel, 110,000 tons; horse, Ry, Brady 11.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Vellow Run Coal Co., Greensburg, Pa. J. Schall Wilhelm, prest.; W. A. Huff, secy, and treas.; D. W. Luke, mgr. and supt. Cap. sfk. \$75,000. Vellow Run. Shaft: steam (developing).

	supt.
Elk Lick Somerset Ry, West Salisbury 42.	Hamilton & Cochrane, Baltimore, Md., 12 South st. Hamilton, Tunnel, 30,000 tons; borse, James Cochrane, supt.
Elm GroveFayette Ry, and P. O. Connells- ville 42, 563.	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg. Elm Grove. Slope, 120,000 tons; steam; 100 coke ovens, 72,000 tons. T. J. Mitchell, supt.
Emblem Allegheny Ry, Osceola 42.	Osceola Coal Co. James W. Shields, propr., Pittsburg, Pa., P. O. Box 502. Cap. stk. \$25,000. Osceola. Open pit, 100,000 tons; steam.
FairchanceFayefte Ry, 563,	Fairchance Furnace Co. Geo, R. Sheldon, prest.; W. H. De Forest fr., seey, and treas; Robt, L. Martin, mgr. Cap, stk, \$250,000. Fairchance. Slope, \$25,000 tons; horse; 133 coke ovens, 75,000 tons. John W. Stirling, supt.
Fall Brook Tioga Ry, 257.	Fall Brook Coal Co., Corning, N. Y. Geo, J. Magee, prest.; John Lang, seey, and treas.; Anton Hardt, mgr. Cap. stk. \$100,000. Fall Brook. Drifts, 83,000 tons; horse and steam; washer. R. Russell, supt.
Falls Creek Clearfield Ry, 11, 85, 563, 618,	Reynoldsville Coal Co. Henry K. Weck, prest.; Frank Morrison, seey., mgr. and supt.; J. H. Corbett, treas. Cap. stk. \$16,000. Sherwood. Drift; horse (developing).
FederalAllegheny Ry, 583,	Federal Coal Co. Wilfrid Stewart, mgr. and supt. Federal, Tunnel, 100,000 tons; horse,
Fort Hill Fayette (P.O.Vanderbilt)Ry.42	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg. Fort Hill. Slope, 200,000 tons; steam; 190 coke ovens, 120,000 tons. T. J. Mitchell, supt.
Frugality Cambria Ry, 195.	Cresson & Clearfield Coal & Coke Co., New York City, I Broadway – Hon, John Dean, prest.; B. O. Hagan, seey.; R. J. Cross, Ireas.; P. H. Walls, mgr. – Amsbey and Frugality Nos. 1, 2, 3, 4, 5, – Tunnels, 690,000 tons; steam and horse; breaker, 125 coke ovens, 60,000 tons.
Gallitzin Cambria Ry, 563,	Taylor & McCoy, Cap. \$250,000. Shaft, 210,000 tons; steam and horse; 240 coke ovens, 135,000 tons, John F. McCoy, supt.
Glen CampbellIndiana Ry, 563,	Cush Creek Coal & Coke Co., Altoona, Pa., cor, Twenty-fourth st, and Oak av. H. E. Clark, prest.; 1, K. Evans, secy., treas, and mgr. Cap. stk. \$6,000. Cush Creek Nos. 1 and 2. Tunnel; horse.
Glen Richey . Clearfield Ry, Oshanter 52	Bloomington Mining Co., Philadelphia, Pa., 411 Walnut st. F. I. Gowen, prest.; W. R. Teller, seey.; Rembrandt Peale, treas, and mgr. Cap. stk. \$100,000. Glen Richey. Drift, 200,000 tons; horse, John Dunsmore, supt.
Glenshaw Allegheny Ry, 592.	Robbins Coal & Coke Co., Pittsburg, Pa., 708 Penn av. F. L. Robbins, gen. mgr. Glenshaw, slope, 100,000 tons; steam. G. W. Schluederberg, supt.
Gomersal Butler Ry, 588.	Gomersal Coal Co., Ltd., Youngstown, Ohio, H. O. Bonnell, prest, and treas.; Harry Bounell, seey Gomersal. Open pit, 52,000 tons; horse. Wm, Ferguson, supt.
Gosford Armstrong Ry.CowanshannocSta- tion 11.	Turner Coal & Mining Co. J. L. Turner, mgr. Turner, Tunnel, 20,000 tons; horse, Richard Lewis, supt.
Graceton Indiana Ry, 563.	McCreary Coke Co. Harry McCreary, freas, and mgr. Cap. \$200,000. Graceton Nos. 1 and 2. Drift, 700 tons; steam and horse; 181 coke ovens, 120,000 tons.
Greensburg., Westmorel'd Ry, 563.	Alexandria Coal Co., Philadelphia, Pa., Bullitt Bidg. Geo, F. Huff, prest; Fred McOwen, seey, and treas.; Thos, Donohoe, mgr. and supt. Cap. 8tk, \$20,000. Alexandria. Tunnel, 207,000 tons; steam; 293 coke ovens, 150,000 tons.
·· .	Carbon Coal Co, Philadelphia, Pa., 323 Wahnt st. David E. Williams, prest.; W. A. Smith, seey.; James C. Clarke, treas. Cap. stk. \$300,000. Carbon. Slope, 150,000 tons; steam, 48 coke ovens; 26,000 tons. Frank I. Kimbal, supplementary.
**	Jamison Coal Co. R. S. Jamison, prest.; John M. Jamison, secy, and treas.; Thos. S. Jamison, mgr. and supt. Cap. stk. \$150,000. Jamison. Slope; steam; 30 coke ovens, 15,000 fons developing).
**	Madison Gas Coal Co. G. Brinton Roberts, prest.; W. A. Smith, seey.; W. A. Huff, treas, Cap. stk. \$100,000. Madison, Tunnel, 98,000 tons; horse. Thos. Donohoe jr., supt.
GrindstoneFayette Ry. 563,	Redstone Oil, Conl & Coke Co., Philadelphia, Pa., 201 Walnut pl. J. B. Ridgway, prest.; J. I. Bishop, vprest.; Goo. W. Dolmert, treas. Redstone. Shaff, 180,000 tons; steam and electricity: 31 coke ovens, 55,500 tons, J. F. Cook, supt.
Grove City, Mercer Ry, 588,	Filer, Sutliff & Co., Sharon, Pa. Enoch Filer, mgr. Cap. \$50,000. Diamond, No. 1 and No. 2. Shafts, 140,000 tons; steam. Frank P. Filer, supt.
* * * * * * * * * * * * * * * * *	Westerman, Filer & Co., Sharon, Pa. Enoch Filer, mgr. Cap. \$60,000, Chestnut Ridge. Shaft, 70,000 tons; steam and horse. Enoch D. Filer, supt.
Gurnee Tioga	Gaines Coal & Coke Co., Addison, N. Y. T. C. Platt, prest.; Frank M. Baker, mgr. Drifts Nos. 2 and

LOCATION OF MINE,

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

Town

# COAL-BITUMINOUS (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF \$2000 POUNDS, KIND OF POWER USED, COAL BREAERS, WASHERS, COGE OVERS, AND NAME OF MINE SCPEINITENDENT.

Hamilton Tioga Ry, and P. O. Morris Run 503,	Morris Run Coal Mining Co., Corning, N. Y., Geo, J. Magee, prest.; W. S. Nearing, seey, and supt., Daniel Beach, treas. Cap. stk. \$100,000. Morris Run, Slope, 400,000 tons; horse and steam.
HastingsCambria Ry, 583,	Dunwiddie & Campbell. Cap. \$12,000. Oak Ridge. Slope, 28,500 tons; horse. Jas Campbell, supt.
	Dunham & Evans (local). Cap. \$500. Hermitage. Shaft, 1,000 tons; horse,
	N. L. Wiesen (local), Wiesen, Slope, t,000 tons; horse,
Hickman Allegheny Ry, 583,	Beechmont Coal Co. Cap, \$10,000. Beechmont. Slope, \$0,000 tons; steam and horse. J. C. McMichael, supt.
Hooversville. Somerset Ry, 42.	Wm. Hoover & Bros. (local). Valley Mines.
. **	D. D. Jones, Ocean. Slope, 50 tons; horse,
**	Joseph Meyers (local). Cap, \$50. Tunnel, 60 tons; hand.
**	Frank Rodgers (local). Open plt; hand.
Hopewell Bedford Ry, 317.	Huntingdon & Broad Top Mountain Raitroad & Coal Co., Philadelphia, Pa., S. E. cor, Fourth and Walnut sts. Spencer M. Lanney, prest.; J. P. Dohaldson, seey, and treas., Geo. F. Gago, gen., mgr. Cap. stk. 83374750. Cumberland and Mount Equity. Tunnels, 20,000 tors, borse. John Langdon, supt.
* 1	Lambirth Coal Mining Co., Philadelphia, Pa., 131 8, Fourth st. 41, W. Lambirth, prest.; Geo. E. Scott, seey, and treas.; John Langdon, mgr. Cap. 8tk, \$12,000. Crescent and Chevington. Slope and drift, 125,000 tons; steam and horse. Lee 04tt, supt.
Houtzdale . Clearfield Ry, 563,	H. K. Myers, Tyrone, Pa. Cap. \$15,000. Belvern, Nos. 1 and 3. Drift, 100,000 tons; steam. Robert Whitehead, supt.
	Sterling Coal Co., Philadolphia, Pa., 49 Walunt St., D. H., Hastings, prest., 1, 1, Patterson, seey.; W. H., Metzger, treas.; Edward McHugh, ngr., Cap. 8tk, \$200,000. Sterling Mines (10). Drifts and slopes, 600,000 forces; Sterland horse. Thos. E. McHugh and J. L. Spangler, sipts.
Imperial Allegheny Ry, 471.	Imperial Coal Co., Pittsburg, Pa., 95 Fifth av. U. A. Andrews, prest.; W. H. Hosmer, seey, and treas.; Wm. Bald, mgr. and supt. Bower Hill, Montour and Clift. Draft, 249,000 tons; steam; 462 coke ovens.
Irwin Westmoreland Ry, 563, 833,	Penn Gas Coul Co., Philadelphia, Pa., 200 S. Third st. F. A. Dingee, prest.; A. K. Gregory, seey, and treas, John F. Wolf, nigr., and supt. Coul Run. Nos. 1, 2 and 4. Shafts, 800,000 tons; steam and horse, 50 coke overs.
Jacob'sCreekWestmorel'd Ry, 42, 591.	Eureka Coal Co., Pittsburg, Pa., 83 Fourth av. Wm. H. Graham, prest.; W. V. Dinker, seey, and treas.; Wm. McCune, mgr. and supt. Cap. stk. 870,000. Eureka. Tunnel, 100,000 tons; steam and horse.
Johnstown Cambria Ry, 42, 563.	William Barnett (local), Eighth ward, Grabtown, Tunnel, 4,000 tons; hand,
" "	A. J. Haws & Son (local). Cap. \$150,000. Shaft, 25,200 tons; steam.
Kearney . Bedford	W. J. Williams (local), Water st. Cap. 8800, Williams, Open pit, 4,500 tons; horse, John Retallack, supt. Joseph E. Thropp, Philadelphia, Pa., 119 S. Fourth st. Kearney. Slopes and tunnels; 110 coke ovens. Thos. A. Jones, supt.
Ry, 317. Latrobe Westmoreland	
Ry, 396, 563.	Derry Coal & Coke Co. M. Saxman jr., prest., D. Watts, seey, and treas., E. Saxman, mgr. and supt. Cap. 8th, 845,000. Derry. Shaft, 188,000 tons, steam: 182 coke ovens, 108,000 tons. Latrobe Coal Co., Altoona, Pa. J. G. Cassatt, prest., John Lloyd, seey, and treas. Slope, 180,000 tons;
	Latrobe Coal Co., Alloona, Pa., J. G. Cassatt, prest., John Lloyd, seey, and treas. Stope, 180,000 tons; steam; 60 coke ovens. D. W. Jones, supt. M. Saxman jr. & Co., (ap. \$15,00). Saxman, Shaft, 97,700 tons; steam; 60 coke ovens, 32,000 tons.
Lawsonham Clarion	Kieman, supt.
Ry. 11.	Neystone Coat Mining Co., East Drany, Ca. Geo, E. Henry, prest,, secy, and supt.; John Henry, mgr.
Ligonier Westmoreland	Keystone Coal Mining Go, East Brady, Pa. Goo, E. Henry, prest., seey, and supt.; John Henry, mgr. Cap. 8tk, 829,000. Reystone: Open pd. 5,000 tons, hand. Michael Keffer (local). Keffer. Open pit, 400 tons, hand.
Ligonier Westmoreland Ry, 396.	Cap. 84k, \$20,000. Keystone Open pd. 50,000 tons. hand.  Michael Keffer (local). Keffer. Open pit, 500 tons, hand.
Ligonier Westmoreland Ry, 396,	Cap. stk. s20,000. Keystone Open p.t. 50,000 tons, hand.
Ligonier Westmoreland Ry, 396,	Cap. 8tk. \$20,000. Keystone Open pd. 50,000 tons. hand.  Michael Keffer (docal). Keffer. Open pit, 400 tons. hand.  William C. Knox (docal). Knox. Open pit, 72) tons; hand.  E. W. Mentzer, Hollidaysburg, Pa. Bens Creek Plain. Drift, 68,50 (tons. horse. John A. Leap, supt.  W. H. Piper & Co., Philadelphia, Pa., 413 Walnut 8t. Sonman, Nos. 1, 2 and 3. Tunnet, 200,000 tons.
Ligonier Westmoreland Ry, 396. " " Lilly Cambria Ry, 563.	Cap. 848, 820,000. Keystone Open pd. 50,000 tons. hand.  Michael Keffer (Jocal). Keffer. Open pit, 72 (tons; hand.  William C. Knov (Jocal). Knov. Open pit, 72 (tons; hand.  E. W. Mentzer, Hollidaysburg, Pa. Bens Creek Plain. Drift, 68,50 (tons, horse. John A. Leap, supt.
Ligonier Westmoreland Ry, 396,	Cap. 8tk, \$20,000. Keystone Open pd. 50,000 tons, hand, Michael Keffer (local). Keffer. Open pit, 500 tons, hand, William C. Knov (local). Knov. Open pit, 72 (tons; hand, E. W. Mentzer, Hollidaysburg, Pa. Bens Creek Plain, Prift, 68,50 (tons, horse, John A. Leap, supt, W. H. Piper & Co., Philadelphia, Pa., 413 Walnut st. Semman, Nos. 1, 2 and 3. Tunnel, 200,000 tons; steam and horse. John Leabey, supt. Listic Mining & Manufacturing Co., Somerset, Pa. Somon Krebs, prest., mgr, and supt., Joseph Tate, seey
Ligonfer Westmoreland By, 386.  Lilly	Cap. 84k, 820,000. Keystone Open p.f., 50,000 tons. hand. Michael Keffer (10cal). Keffer. Open p.f., 50,000 tons. hand. William C. Knox (10cal). Knox. Open p.f., 72) tons; hand. E. W. Mentzer, Holfdaysburg, Pa., Bens Creek Plain, Drift, 68,50) tons, horse, John A. Leap, supt. W. H. Piper & Co., Philadelphia, Pa., 443 Walmit st. Sonman, Nos. 1, 2 and 3. Tunnel, 200,000 tons; steam and horse, John Leahey, 80pt. Listic Mining & Manufacturing Co., Sonnerset, Pa., 8000 Krebs, prest., nugr., and 80pt.; Joseph Tate, 8cey and treas. Cap. 84k, 850,000, Krebs, Tunnel.
Ligonfer Westmoreland By 386.  Lilly	Cap. 8tk, \$20,000. Keystone Open pd. 50,000 tons. hand. Michael Keller (local). Keller. Open pit, 700 tons, hand. William C. Knox (local). Knox. Open pit, 72 (tons; hand. E. W. Mentzer, Holidaysburg, Pa. Bens Creek Plain. Drift, 68,50 (tons, horse. John A. Leap, supt. W. H. Piper X. Co., Philadelphia, Pa., 443 Walnut st. Sonman, Nos. 1, 2 and 3. Tunnel, 200,000 tons; steam and horse. John Leahey, supt. Listic Mining & Manufacturing Co., Somerset, Pa., Simon Krebs, prest., mgr, and supt.: Joseph Tate, secy and treas. Cap. 8tk, \$50,000. Krebs. Tunnel. Josse Liston (local).
Ligonfer Westmoreland Ry, 396.  Lilly	Cap. 8tk, \$20,000. Keystone Open pd. 50,000 tons. hand. Michael Keffer (Jocal). Keffer. Open pd. 72) tons; hand. William C. Knox (Jocal). Knox. Open pd. 72) tons; hand. E. W. Mentzer, Holfidaysburg, Pa. Bens Creek Plain. Drift, 68,50 (tons. horse. John A. Leap, supt. W. H. Paper & Co. Philadelphia, Pa., 443 Walmut st. Somman, Nos. 1, 2 and 3. Tunnel, 200,000 tons; steam and horse. John Leahey, supt. Listic Mining & Manufacturing Co., Somerset, Pa. Simon Krebs, prest., mgr, and supt.; Joseph Tate, seey, and treas. (ap. 8tk, 850,000, Krebs. Tunnel, Jesse Liston (Jocal). Cambria Fire Brick Co., Lock Haven, Pa. X. W. Predericks, prest., R. L. Bower, seey.; R. W. Fredericks, treas; H. G. Hurd, ngr. Cap. 8tk, 82,000. Drift, horse and hand (developing).
Ligonfer Westmoreland Ry 1886.  Lilly	Cap. 84k, 820,000. Keystone Open pd. 50,000 tons. hand.  Michael Keller (local). Keller. Open pd. 70 tons; hand.  William C. Knov (local). Knov. Open pd. 72 (tons; hand.  E. W. Mentzer, Hollidaysburg, Pa. Bens Creek Plain. Drift, 68,50 (tons, horse. John A. Leap, supt.)  W. H. Piper & Co. Philadelphia, Pa., 443 Walnut st. Sonman, Nos. 1, 2 and 3. Tunnel, 200,000 tons; steam and horse. John Leahey, supt.  Listic Mining & Manufacturing Co., Somerset, Pa., Samon Krebs, prest., mgr. and supt.: Joseph Tate, seey and treas. Cap. 84k, 850,000. Krebs. Tunnel.  Joseph Walton (docal).  Cambria Fire Brick Co., Lock Haven, Pa. N. W. Fredericks, prest., R. L. Bawer, seey.; R. W. Fredericks, treas.; H. G. Hurd, mgr. Cap. 84k, 82,000. Drift, horse and hand (developing).  Joseph Walton & Co., Pittsburg, Pa., 134 Water st., I. N. Banton, mgr. Cap. 84k, 81,500,000. Upper. Drift, 50,000 tons; steam, horse and hand. John W. P. ke, supt.

Noblestown

OF OFFICERS, CAPITAL STOCK.

#### COAL-BITUMINOUS-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Princip, Name and Kind of Mine, Annual Output in Tone Coal Breakers, Washers, Coke Ovens, and	OF 2,000 POUNDS,

KIND OF POWER USED. UPERINTENDENT. McDanald Washington Pittsburg Consolidated Coal Co., Pittsburg, Pa., 768 Penn av. F. L. Robbins, gen. mgr. Jumbo, No. 1. Slope, 200,000 tons; steam; 16 coke ovens, G. W. Schluederberg, supt.

(Continued.) J. D. Sauters, Cap. \$75,000, Nickel Plate. Tunnel, 80,000 tons; steam,

MetGovern "Washington Cook & Sons. Cap. \$15,000. Allison. Drift, 45,000 tons; horse. R. M. Cook, supt. Ry. Allison 584. Madera . Ry, 563,

....Clearfield Moshannon Vein Coal Mining Co., Philadelphia, Pa., Fourth st., Bullitt Bldg. J. Chester Wilson, prest.; R. A. Zentmyer, seey. and treas; P. B. Zentmyer, mgr. and supt. Cap. stk. \$50,000. Chester Nos 1 and 2. Opten pi, 160,000 tons; brose. Vulcan Coal & Coke Co., Philadelphia, Pa., 228 S. Fourth st. Wm, H. Wigton, prest, and mgr.; F. H. Wigton, sery, and trens. Cap. stk. \$50,000. Vulcan Nos. 1 and 2, Tunnel, 300,000 tons; steam. Chas. E. Sharpless, supt.

Madison - Westmoreland - Arona Gas Coal Co., Philadelphia, Pa., 333 Walnut st. - G. Brinton Roberts, prest; W. A. Huft, seek, and ly, 563. - Grant - G

Madison. . . Armstrong River View Coal & Mining Co., Baffalo, N. Y., 22 W. Swan st. John Peterson, prest.; L. V. Biggs, seey.; (P. O. Cosmus) Ry. James S. Moore, mgr. Cap. stk. \$75,000. Drift, 100,000 tons; gravity.

Marion Centre . . Indiana John Vanleer (local). Cap. \$5,000. Vanleer. Open pit, 12 tons; hand. Rv. Indiana 563.

Meyersdale..... Somerset Casselman Coal Co. Wm, G. Hocking, prest, and gen, mgr. Cap, stk. \$30,000. Casselman, Slope, 75,000. Ry. 42. Hocking Coal Co., Baltimore, Md., Lodenhall st. Open pit, 45,000 tons,

Benjamin Thomas. Cap. \$3,000. Thomas, Tunnel, 17,000 fons; horse,

Midway... Ry, 584, ...Washington Pittsburg Consolidated Coal Co., Pittsburg, Pa., 768 Penn av. F. L. Robbins, gen, mgr. Jumbo, No. 2. Slope, 125,000 tons; steam. G. W. Schluederberg, supt. ille..... Allegheny O. Sunny Side) Ry. Robert Jenkins, Pittsburg, Pa., 120 Water st., Cap. \$50,000, Milesville, Open pit; horse and steam,

426, Mineral Point ... Cambria E. Reighorn & Page (heirs). Cap. \$3,000. Cambria. Slope, 18,000 tons; horse. E. Reighorn, supt.

Monongahela City, Washington W. H. Brown's Sons, Pittsburg, Pa., 113 Water st. Black Diamond, Drift, 60,000 tons; steam, James Ry, 426, 563,

Morrisdale-Mines-Clearfi'ld R. B. Wigton & Sons, Philadelphia, Pa., 228 S. Fourth St. Morrisdale Nos. 1, 2, 3 and 4, Troy; Rothrock, Schoonover and Cumard. Shaft and Juriffs, 750,000 tons; steam and compressed air; 124 coke ovens, 62,000 tons. Class. E. Sharpless, sunt.

Mt. Braddock....Fayette R. Hogsett & Co., Cap. \$450,000. Mt. Braddock. Slope, \$5,000 tons; steam; 170 coke ovens, 54,000 tons. Fuller Hogsett, supt.

Mt.Pleasant, Westmoreland South-West Connellsville Coke Co., Pittsburg, Pa., 501 Baok of America Bldg. 41, C., Frick, prest.; F. W., Haskell, seey, and treas; Morris Ramsay, gen, mgr, and supt. Cap. stk. \$4,000,000. Xos. 1, 2, 3 and 4, 1,200,000 tons; steam, water and electricity; L.202 coke ovens, 725,000 tons.

Fayette W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bildg. Grace. Slope, 450,000 tons; steam; 410 coke ovens, 270,000 tons. Thos, Johns, supt. Rv. 563.

Munhall. Allegheny Munhall Bros., Pittsburg, Pa., 409 Smithfield st. Cap. \$175,000. Bellwood. Tunnel, 65,000 tons; steam and horse. Wm. McMasters, supt. Ry. 563,

Munson Station Clearfield R. C. Fishburn, Cap. \$15,000. Kyler, Tunnel, 50,000 tons; horse; 50 coke ovens, 25,000 tons,

A, B, & G, W, Lueder, Cap, \$10,000. Lueder, Slope, 30,000 tons; steam and horse. Frank O'Rorke, supt. Cambria Sonman Coal Mining Co., Philadelphia, Pa., 256 Bullitt Bidg. John Pitcairn, prest.: C. C. Watt, v.-prest.: T. S. Shoemaker, seev.; L. V. Biggs, treas: C. A. Hughes, mgr. Cap. 8tk, \$50,000, Sonman. Shart, 150,000 tons; horse and steam. Joseph Patterson, supt. Ry. Somman, 563.

Neshannock .Mercer Pierce Coal Co., Ltd., Sharpsville, Pa. Frank Pierce, prest.; James Pierce, mgr. Lackawannock No. 2. Shaft, 15,000 tons; steam. Archa McIntyre, supt. Ry. 668.

New Castle v Castle — "Lawrence Thompson Run Coal Co. M. S. Marquis, prest.; L. Raney, treas. Cap. stk, \$16,000. Thompson Run. Ry. 254, 503, 504, 502, 585. Tunnel (developing). New Geneva.... Fayette R. T. Williams (local), Williams, 1,200 tons,

...Allegheny National Coal Co., Ltd., Pittsburg, Pa., 95 Frith av. Frank Armstrong, prest.; L. M. Jenkins, secy, and mgr.; J. A. McCready, treas. Cap. 8tk, 851,000. National. Tunnel, 50,000 tons; steam and horse. John Brown, 8upt. Oil City.......Venango - Hartwell Coal Co., C. F. Hartwell, prest, Tunnel (developing), Ry, 11, 383, 503, 805.

Fola . . . . . Allegheny James W. Shields, Pittsburg, Pa., P. O. Box 502. Cap, §25,000. Osceola. Open pit, 100,000 tons; steam. (P. O. Emblem) Ry, 42.

.. Clearfield Ghem Coal Co., Ghem. Drift, 40,000 tons; horse, Geo. M. H. Good, supt,

Osceola Mills ...Clc Rv. Osceola 563 H. Liveright & Co., Philadelphia, Pa., 28 N. Third st. Cap. \$30,000. Logan, Bessemer, Pioneer and Fairmount. Open pits, 200,000 lons; horse, J. S. Catherman, supt.

Fayette Pennsville Coke Co. J. D. & B. T. Schenick, mgrs. Cap. stk, \$109,000. Pennsville. Open pit and slope, 63,000 (tons; steam; 92 coke ovens, 47,000 (tons. Jacob Duvalt, supt. Ry. 568,

Percy (P. O. Uniontown) Ry. Fayette Percy Mining Co., Uniontown, Pa. Geo, C. Marshall, prest, and treas.; A. W. Bliss, seey. Cap. stk. \$30,000 Ry. — 000. Percy. Shaft, 45,000 tons: steam; 62 coke ovens, 25,000 tons. Louis de Saulles, supt. LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

Philipsburg

Sattlito Ry, 235,

# COAL-BITUMINOUS-(CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.

Centre Bloomington Mining Co., Philadelphia, Pa., 411 Walnut st. F. I. Gowen, prest.: W. R. Teller, secy.

Ry, 52, 563.	Contre	Rembrandt Peale, treas, and mgr. Cap. stk. \$100,000. Cuba and Victor. Drifts, 300,000 tons; horse.  John Dunsmore, supt.
**	h a	Coaldale Coal Co. O. Perry Jones, prest, and mgr.; Geo. W. Ganoe, seey, and treas. Cap. stk. \$250,000. Coaldale Nos. 3, 4, 5, 6, 7 and s. Drifts and slopes, 400,000 tons; steam.
16	5.0	Jackman & Ellsworth, Colorado Nos. 1, 2 and 3, Tunuel, 125,000 Ions; horse,
16	14	Thomas J. Lee, Cap. \$10,000. Gearhart. Drift, 100,000 tons; horse. Richard Lobb, supt.
11	14	Manson Coal Co. Munson. Tunnel, 5,600 tons; horse, R. E. Manson, supt.
**	4.5	John Nuttall & Co. (cap. \$450,000). Decatur Nos. 4 and 2. Open pit, 149,000 tons; horse. G. W. McGaffey, supt.
**	h.	J. S. Wires & Co. Cap. 86,000. Montana. Open pit, 70,000 tons; horse.
Pittsburg A Ry, 11, 42, 43, 583, 584, 590,	Hegheny 175, 563,	Corey Gas Coal Co., Fifth av. J. B. Corey, mgr. Cap. 8150,cc). Buffalo. Open pit, 75,000 tons; steam. Thomas F. Neil, supt.
Portage Ry, 563,	Cambria	Cambria Coal Mining Co., Williamsport, Pa. Jas, B. Coryell, prest.; W. D. McCansland, seey. Cap. 84k, \$100,000. Anchor. Tunnel, 193,000 tons; horse, E. S. Brubaker, supt.
31	4.1	Hopfer & Milson, Cap, 89,000, Ebbyale, Drift, 40,000 tons; horse, Edward Hughes, supt.
13	+4	Sonman Coal Mining Co., Philadelphia, Pa., 255 Bullitt Bldg., John Piteairn, prest.; T. S. Shoemaker, seey., L. V. Biggs, treas.; C. A. Hughes, gen. mgr., Cap. 8tk, \$50,000. Trout Run. Slope, 75,000 fons: steam and horse.
Powellon,	Centre	Robert A. Jackson, Osceda Mills, Pa. Cap. \$20,000. Black Diamond. Open pit, 60,000 tons; steam. R. Jackson jr., supt.
Rainey (P. O. Dawson		W. J. Rainey, Cleveiand, Ohio, Mercantile Bank Bldg. Rainey. Drift; steam; 225 coke ovens, 150,000 tons. T. J. Mitchell, supt.
Ralston L Ry, 528.	yeoming	Red Run Coal Co., Roaring Branch, Pa. Jacob Green, prest., C. L. Green, seey., treas, and mgr. Cap. 8tk, \$200,000. Red Run Tunnel, 60,000 tons, steam. Robert Brownlee, supt.
12 v 543		Benjah Coal Co., Ltd., Philadelphia, Pa., 144 8, Fourth st. Cap. stk. 89,965. Webster No. 4. Tunnel, 94,300 tons, steam. James H. Minds, supt.
Red BankAr Ry, and P. Ridge Statio	mstrong O. Oak u.H.	Oak Mining Co., Baffalo, N. V., Coal and Tron Exchange. R. H. W. Walians, prest, seey, and mgr., H. A. Noble, treas. Cap. stk. 850,000. Oak Ridge Nos. 1, 2 and 3. Drufts, 3, 500 tons, steam, J. C. Baker, supt.
Reynoldsville J Ry. 11, 618.	efferson	Bell, Lewis & Vates Coal Mining Co., Bullalo, N. Y. Geo, H. Lewis, prest., Chas, Clifton, seey, and treas. S. B. Elliott, mgr. Cap. 84k, 84,600,000. Solder: Run, Sprague and Hamilton. Slopes, 650,000 forus: horse, 190-206, overs, 30,000 forus. Geo. Mellinger, supt.
Richland Station,I Ry, Richland	Lebanon 578.	Richiand Coal Co., Altonia, Pa., Room 42 Phrenix Block, W. L. Shellenberger, prest, and mgr., F. G. Patterson, seey.; S. J. Westley, treas. Cap. sik. \$50,000. Dougherty. Drift developing).
Riddlesburg Ry, 317.	Bedford	Kemble Iron Co., Alex, Ninick, prest.; Chas, H. Scott, seey, and treas.; Wm. Lauder, mgr. Mt. Equity, Tannel, 70,000 tons. Scoke ovens, 30,000 tons. James Allen, supt.
Rimersburg Ry, tt.	Clarjon	Aeme Mining Co., Builalo, N. V., Coal and Iron Exchange. W. Pollock, prest.; J. W. Hiil, seey, and treas.; E. B. Hib, mgr. Aeme. Open pit, 45,000 tons, horse. Thus, 8, Lowther, supt.
Rimerton Ar (P.O. Rimer)	mstrong Ry. 11.	C. E. Butler, Cap. 84,060. Rimerton. Open pit, 15,000 tons., horse.
River View Ar (P. O. Cosmus	mstrong (  Ry. 11.	River View Coal & Whing Co., Philadelphia, Pa., 266 Bullitt Bldg. John Pilearra, prest; L. V. Biggs, seey; and treas., James S. Moore, mgr, and supt. Cap, 8tk, 875,000. River View. Drift, 100,000 tons; horse and gravity.
(P. O. Rockh nace) Ry. 23	III Fur-	Rockhill Iron & Gal Co., Ph.Iado phia, Pa., 20 Walmut St. Wm. A. Ingham, prest; J. E. Haverstick, seey, and treas., A. W. Sans, mgr. Robertsdale. Slope and shuft, 200,000 tons; dynamite, 132 coke ovens, 5,0,00 tons. Charles Comor, supt.
Roseoe Wa Ry, Lucyville	hington 533, 563,	Alps Coal Co. L. S. Miller, prest., J. W. Ailes, seey, and treas. Cap. stk, 850,000. Snowhill and Little Alps. Open pit, 120,000 tons; steam and horse. Joseph Hodewood, supt.
Saint Mary's Ry, 563,	Eik	Kanl & Hall. Cascade and Hazel Dell. Open p t, 115,000 tons; hand. Martin Dippold, supt.
	**	St. Mary's Coal Co., WPliamsport, Pa., 165 E. Third st. F. Coleman, prest.: J. B. Coryell, seey, and treas. Cap. stk. 8200,000. St. Mary's. Open p't, 100,000 tons: steam and horse.

Scotthale Westmoreland (Ry. 42, 563, Westmoreland (Ry. 42, 563, Westmoreland (Ry. 42, 564, Westmoreland (Ry. 42, 564, Westmoreland (Ry. 42, 584)).

Separation of the property of the property

salisbury — Somerset Grassy Run Coal Co., Elk Lick, Pa., John Meager, mgr, and supt. Grassy Run. Drift, 28,000 tons, hand, P.O. Elk Lick (By. 42.

Indiana Saitsburg Coal Co., Philadelphia, Pa., Brown Eldg. B. K. Jam son, prest.; N. R. Shattuck, seey., F. B. Rolston, Treas.; Pavad Galbra'th, mgr., and supt. Cap. 8tk, 84,000,000. Fairbanks and Foster. Pit. nonon tons; steam.

Huntingdon George Steeman clocal L. Cap. \$1,000. Rocky Ridge. Stope, 1,200 tons. horse.

# COAL-BITUMINOUS-(CONTINUED)

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LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, anneal Output in Toks of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Superintendent.
TOWN AND COUNTY.	
Shireoaks Washington Ry, 563,	John M. Risher, Pittsburg, Pa., 8 Wood st. Cap. \$255,000. Banner, Clift and Coal Bluff. Open pits, 400,000 tons; steam. Joseph Griffiths, supt.
Smithton Westmoreland Ry. 42, 584.	Waverly Coal & Coke Co., Pittsburg, Pu., 17 Coal Exchange. J. A. Courtney, prest, and seey.; R. B. Mellon, trens.; David Orr, mgr. and snpt. Cap. stk, \$500,000. Waverly. Shaft and open pif, 200,000 fons; steam; washer, 117 coke ovens, 50,000 fons.
Snow Shoe Centre Ry, 52,	Lehigh Valley Coal Co., Phitadelphia, Pa., 228 S. Third st. Elisha P. Wilbur, prest.; J. R. Fanshawe, seey.; Win, C. Alderson, treas; W. A. Lathrep, mgr. Cap. stk. 8550,000. Lucas Hill and Sugar Camp Nos. 1, 2 and 3, 197,000 tons; steam and horse. James F. Mastseller, supt.
South Fork Cambria Ry, 563,	Annora Coal Co. Annora. Drift, 4,000 tons; horse. D. W. Luke, supt.
	Argyle Coal Co., Greensburg, Pa. R. Coulter, prest.; W. A. Huff, secy.; Geo, F. Hull, treas.; J. P. Wilson, mgr. and supt. Cap. sfk. \$25,000. Argyle. Open pit, 155,000 tons; horse,
86	Euclid Coal Co., Ltd., Altoona, Pa., 833 Fourth st. W. S. Hostler, prest.: J. II. Dietrick, secy., supt. and mgr. Cap. stk \$16,009. Euclid. Open plt, 50,000 tons; horse.
Southwest Westmoreland Ry, Hecla 563.	The Heela Coke Co., Ltd., Pittsburg, Pa., 421 Wood St., Win, Thaw jr., prest.; T. C., Darsie, seey.; Benjamin Thaw, treas.; das. Darsie, gent. mgr., Cap. stk. \$50,000. Heela No. 1. Shaft, 225,000 tons; steam and horse; 272 coke evens, 5,00,00 tons. Thomas Laird, snpt.
SpeersWashington Ry, 533,	
Stockdale Washington (P.O.Monarch) Ry, 563.	Stockdale Coal Co., Pittsburg, Pa., Sixth av. and Smithfield st. Acme. Open pit, 100,000 tons; horse. A. S. Braznell, supt.
StoneboroMercer Ry, 383, 803,	Carver Coal Co., Sharon, Pa. Enoch Filer, prest.; H. J. Filer, secy. Cap. \$50,000. Carver. Shaft, 70,000 tons; steam, E. P. Filer, supt.
	The Hecla Coke Co., Ltd., Pittsburg, Pa., 421 Wood 8t. Wm. Thaw ir., prest.; T. C. Darsie, seey.; Benj. Thaw, treas.; James Darsie, gen. mgr. Cap. 8tk, 850,000. Heela No. 2. Shaft, 450,000 tons; steam and horse; 500 coke ovens, 90,000 tons. Thomas Latif, supt.
	H. K. Myers, Cap. \$15,000. Tipton, Slope, 100,000 tons; steam, J. J. Stoker, supt.
	J. D. Boyd & Co., W. Main st. Union. Drift, 109,000 tons; horse.
	Edward Snider (local). Snider. Open pit, 8,560 tons; horse,
	Stewart Iron Co., Ltd., Sharon, Pa. Fayette Brown, prest; D. B. Chambers, seey.; Harvey H. Brown, treas.; Samuel McChire, mgr., Cap. stk. \$150,000. Stewart. Slope, 30,000 tons; steam: 120 coke ovens, 72,000 tons. F. C. Van Dusen, supp.
Upper Tyrone Fayette (P. O. Scottdale) Ry. W. Overton 42, 563,	J. R. Stauffer, Scottdale (Westmoreland Co.), Pa. Cap. \$50,000. Dexter and Home. Open pit, 23,900 tons; horse; 60 coke ovens, 30,000 tons. S. R. Fairchild, supt.
Ursina	Connellsville & Ursha Coal & Coke Co., Scottdale (Westmoreland Co.), Pa. J. M. Reid, prest.; Joseph Albree, secy.; E. H. Reid, trens, and mgr.   Cap. stk. \$1,100,000.   Edna.   Drift; horse; 30 coke ovens.
Vance Mills Fayette Ry. Connellsville 42, 563,	E. A. Humphries & Co., Scottblale, Pa. Cap, \$50,000. Chester Coke Works. Slope, 40,000 tons; steam and horse; 37 coke ovens, 25,000 tons. George Armstrong, supt.
Vanderbilt Fayette Ry, Broad Ford 591,	W. J. Rainey, Cleveland, Ohio, Mercantile Bank Bldg. Moreland. Slope, 60,000 tons; steam. T. J. Mitchell, supt.
Van Ormer Cambr'a Ry, 195.	James Woffenden, Cap. \$4,000. Van Ormer, Open pit; horse,
	D. M. Anderson. Cap. \$150,000. Anderson. Drift, 69,000 tons; steam.
	Boyd Coal Co. Cap, \$50,000. Boyd. Drift, 36,000 tons; horse. Jesse H. Sanford, supt.
Walsall Cambria Ry. Johnstown 42, 563.	Slater, supt.
Walston Jefferson Ry, Walston Junction 85.	
Wampum Lawrence Ry, 563, 591.	
Waynesburg Greene Ry, 792.	Champion Coal Co. (local). Champion. Slope, 4,000 tons; hand.
41	J. D. Johnson, Cap, \$4,000. Slippery Rock. Open pit, 2,800 tons; hand.
West Brownsville Washington Ry, 563.	Knob Coal Co., Brownsville, Fayette County, Pa. Thomas Hollenrod, prest.; Ashalel Smith, seey.; S. H. Pearsall, treas, and mgr. Cap. 8tk, \$25,000. Knob. Slope, 80,000 fons; steam. John D. Bakenell, supt.
	Joseph Walton & Co., Pittsburg, Pa., 134 Water st. 1, N. Bunton, mgr. Cap. \$1,500,000. Lower. Drift. 40,000 tons; hand, horse and steam. John W. Pike, supt.
West Monterey,Clarion Ry, Monterey 11.	Skidmore & Eicke. Cap. \$25,000. Mineral Ridge. Tunnel, 59,000 tons; hand. C. W. H. Eicke, supt.
THE RESIDENCE OF THE PARTY OF THE PARTY OF	at a first a standard of the decision through Store "2 No tone, team " D. H. Intimore sunt

W.Newton, Westmoreland Gough Slope Gas Coal Co. Cap. \$50,000. Gough. Slope, 73,000 tons; steam. R. H. Latimore, supt. By. 42, 591.
W.Overton Westmoreland A. C. Overholt & Co. Cap. \$250,049. West Overton. Open pit, 48,000 tons; horse; 110 coke ovens, 48,000 tons; by F. Overholt, supt.

LOCATION OF MIN ...

Woodland

Unionville Ry, 563.

Ry. 52, 563

# COAL-BITUMINOUS- (CONTINUED)

AND SHIPPING POINT.	NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
West Salisbury . Somerset (P. O. Elk Lick) Ry. 42.	Standard Coal Co. M. F. Statler, prest, mgr, and supt.; C. E. Statler, seey. and treas. Čap. stk. \$5,000 Standard. Drift, 20,000 tons; horse,
44 44	E. Statler, Cap. \$5,000. Statler. Drift, 20,000 tons; horse,
White Ash Allegheny Ry, Sandy Creek 11.	New Vork & Cleveland Gas Coal Co., Pittsburg, Pa., 820 Penn av. W. P. De Armit, prest.) Frank Semple, seey, and treas.; Wm. Pisher, mgr. and supt. Cap. 8tk, \$1,000,000. Sandy Creek. Tunnel, 200,000 tons steam and horse.
Whitney . Westmoreland Ry. 563,	Hostetter Connellsville Coke Co., Pittsburg, Pa., 59 Fourth av. George I, Whitney, prest.; Alfred Knox, seey, and treas.; John McFadyen, mgr. Cap. stk. \$5,000,000. Whitney and Lippincott. Stopes, 480,000 tons. John T. Rush, supt.
Whitsett Fayette Ry, 591.	Rainbow Coal & Coke Co. Cap. \$50,000. Rainbow. Drift, 180,000 tons; steam. H. G. Whitsett, supt.

Wilkinsburg Allegheny Hampton Coal Mines, Pittsburg, Pa., 1425 Liberty st. J. M. Brownson, seey, and treas.: Thos. C. Dickson, mgr. Hampton. Slope: horse, John L. Stewart, supt.

Allegheny First Pool Mongongahela Gas. Coal Co., Pittsburg, Pa., 708 Penn av. Francis L. Robbins, prest.; A. L. Petrie, seey., G. W. Schluederberg, treas., ngr., and supt. Cap. 8tk. 850,000. First Pool. Shatt, 130,000 tons; steam. Willock Ry. 42. Willow Grove Mining Co., Pittsburg, Pa., 708 Penn av. F. L. Robbins, mgr. Willow Grove. Slope, 150, 000 tons; steam. G. W. Schluederberg, supt. Willow Grove Allegheny

(P. O. Sturgeon) Ry. 584, 563. Sommerville & Buchanan, Cap. \$50,600. Sommerville, Nos. 4, 5, 6, 7 and 8. Tunnels, 300,000 tons; horse, John S. Sommerville, supt. Winburne .Clearfield Ry. 52

Clearfield Woodland Cannel Coal Co., Tyrone, Pa. J. M. Keek, prest.; C. M. Ewing, seey.; L. Keek, treas.; Edward Keek, mgr. Cap. stk. \$40,000. Keeks. Open pit, 10,000 tons; horse. H. S. Overly, supt.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

#### CORUNDUM

LOCATION OF MINE OR BANE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT. NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OF BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT. Tows Chester Abrasiye Material Co., Philadelphia, Pa., 145 N. Fourth st., John Hoskin, prest.; Fred S. Dickson, seey.; Louis T. Byerts, treas.; Barlan Page, mgr. and supt. Cap. stk, \$55,000. Tunnel and shafts; steam.

# PERE CLAS

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT. TOWN AND COUNTY	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stocs, Name and Kind of Mink on Bank, Asnual Outfut in Tons of 2000 Pounds, Kind of Power Used, Etc., and Name of Nuperintendent
Haydentown . Fayette Ry, Fairchance, 568,	D. H. Emme. Cap. \$5,000. Emme's, glass pot clay. Open pit, 1,040 tons; hand.
Lloydville Cambria Ry, 566.	Cambria Fire Brick Co., Lock Haven, Pa. N. W. Fredericks, prest.; K. L. Rower, seey.; R. W. Fredericks, treas.; H. G. Hurd, mgr. Cap. stk. \$92,000. Fire clay. Drift, hand and horse (developing).
Mertztown Berks Ry, 578.	Star Clay Co., Cap. 8tk, \$90,000. J. Bordeaux Wilson, mgr. and supt. White China clay. Open pit, 2,400 tons: steam.
Park Quarries Beaver Ry, Conway 563.	Park Fire Clay Co., Jas. I, Park, prest.; W. A., Park, treas. Park, fire clay. Shafts and slope, 100,000 tons; steam, J. H. Park, supt.

#### GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. Tows

NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

ah Cumberland Joseph Hovis. Gold and silver. Open pit, 5,000 tons, horse and hand. Ry, Hunter's Run 578.

#### GRAPHITE

COCATION OF MIN OR BANK, RAILWAYS, WATER RO AND SHIPPING POIN	OUTES,	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock.  Name and Kind of Mine or Bans, annual Output in Toss of 2,000 Founds, Kind of Power  Used, Etc., and Name of Superintendent.
TOWN AND CO	UNTY.	Company and Amend of Company and Amend
Cwehland Ch	iester	American Plumbago Mining Co., Reading, Pa., 800 Penn st. Plumbago. Shaft and open pit; steam. E. B. Rohrbach, supt.
		IRON
LOCATION OF MIN. RAILWAYS, WATER RO AND SHIPPING POIN	OUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Rind of Ore, Rind of Mine, Asnual Output in Toss of 2,000 Pounds, Rind
TOWN AND CO	CNTY.	OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Alburtis Le Ry. 110, 578.	ehigh	Cal. Weiler & Bro, Morris Schiver, mgr. and supt. Cap. \$3,000. Weiler's Ore Bed, brown hematite. Shaf and open pit, 2,000 tons; steam.
Boiling Springs, Cuml Ry, 578.	berl'd	Boiling Springs Iron Co. Cap. stk. \$30,000. Mt. Holly, Letcher, Ege, Lehman, Henry Clay, Springer Heck, Arnold, hematite and magnetic. Steam; blast furnace.
		Philadelphia & Reading Coal & Iron Co., Pottsville, Pa. A. A. McLeod, prest.; F. P. Kaereher, seey.; W C. Church, treas.; C. M. Henderson, mgr. Cumberland, brown hematite. Tunnel and open pit, 30,00 tons; steam. Asbury Berland, appt.
Bowman's Ca (P. O. Prince) Ry	arbon y. 11s.	Prince Manufacturing Co., New York, N. Y., 71 Maiden lane. A. C. Prince, prest, and mgr.: David Prince, seey, and treas. Cap. 8tk, \$30,000. Prince, magnetic. Shaft, slope and tunnel, 16,000 tons steam and water: paint mill and kilus, 6,000 tons. Henry McFarland, supt.
Ry, 578,	Berks	E. & G. Brooke Iron Co., Birdsboro, Pa. Geo, Brooke, prest.; Geo, W. Harrison, seey. Boyertown magnetite. Slope, 12,000 Ious; steam; blast furnace. John H. Harden, supt.
CleversburgCumbe Ry, 195.	erland	George G. Clever. Cap. \$2,000. Neikirk, brown hematite. Open pit, 2,500 tons; steam.
Cornwall Lel Ry, 189, 191,	banon	Cornwall Ore Bank Co. Robert H. Coleman, prest.; R. Percy Alden, secy.; J. Taylor Boyd, treas, au mgr. Cornwall, magnetic. Open pit, 750,000 tons; steam and compressed air. J. C. Boyd, supt.
Dillsburg	York	Lanck & Shelley, Bowmansdale, Pa. Cap. \$12,000. Lanck & Shelley's, magnetic. Shaft, 27,000 tons; steam David Ott, supt.
**	11	W. H. Letcher's, hematite. Tunnel, 6,000 tons; steam. R. A. Spahr, supt.
Five ForksFra Ry. Milbrook St 804.	anklin tation	L. L. Springer, Edenville, Pa. Cap. \$1,500. Millbrook, hematite. Open pit, 3,000 tous; steam. Benj Mozingo, supt.
Fogelsville L Ry. Litzenburg 1	ehigh 10.	Crane Iron Co., Catasauqua, Pa. Mr. Dixon, prest.; J. S. Elverson, mgr. Brown hematite. Open pland shaft, 6,000 tons; steam. J. S. Laros, supt.
Goshorn Huntii (P. O. McNeal 563.	ngdon ) Ry.	Rockhill Iron & Coal Co., Philadelphia, Pa., 320 Walmut st. Wm. A. Jughanu, prest.: J. E. Haverstiek seey, and treas.: A. W. Sims, mgr. Cap. 8tk, \$1,000,000. Shade Gap, fossil. Tunnel, 150,000 tons horse; blast furnace. Joseph Repper, 8upt.
Gractfenburg, A Ry, 563,	Adams	Caledonian Mining & Manufacturing Co., New York City, 93 and 95 Nassau st. Wm. H. Male, prest; J. I Ranney, seey, and treas; J. J. Morehouse, mgr. and supt. Cap. stk. \$250,000. Wolf Hill, hematite Shaff and tunnel; water.
Hunter's Run Cum Ry, 578.	berl'd	Weaver & Bortz, Cap. \$50,000. Lehman, hematite, Tunnels, 10,000 tons; steam, J. A. R. McBride supt.
Ironville Northan P. O. and Ry. I	mpton Teller-	John R. Dull & Son, Hellertown, Pa. Hematite. Open pit and shaft, 6,000 tons; steam.

Berks Phonix Iron Co., Philadelphia, Pa., 440 Walnut st. David Reeves, prest.; G. G. White, seey.; J. O. Pease, treas.; W. H. Reeves, gen. supt. Jones, magnetic. Open pit, 10,000 tons; steam; blast furnace, John H. Harden, supt. Joanna Ry, 820.

Kreamer Ry, 563, Snyder Bickel Bros., Freeburg, Pa. Laurel Hill, fossil ore. Tunnel, 1,200 tons: hand. P. J. Bickel, supt.

Lehigh Gap Ry. 393, 118. Carbon Henry Erwin, Bethlehem, Pa. Cap. \$50,000. Black Rock, iron. Shaft and open pit, 2,500 tons; steam.

Mahoning Ry, 11. . Armstrong | McElravy & Stone. Mahoning, hematite. Open pit, 2,170 tons.

Mont Alto, Ry, 468, Franklin Mont Alto Iron Co. Hematite. Slope and open pit; steam; furnace. Smith & Avery. Cap. \$3,000. Smith, brown hematite. Open pit, 20 tons; steam.

Huntingdon W. T. Browning. Cap. \$15,000. Booker, fossil. Tunnel, 10,000 tons; horse and hand; furnace, 36,000 tons. Thomas N. Puckey, supt. Ry. 235.

South Mountain Mining & Iron Co. J. C. Fuller, prest.; W. H. Woodward, treas.; S. R. Still, mgr. Cap. stk, \$300,000. Hematite. 2,000 tons; steam and water; furnace. Cumberland

... Franklin George G. Rock. Cap. \$1,000. Laurel Valley. Open pit, 9,000 tons; steam; furnace, Ry, 468

Rittenhouse Gap...,Berks | Hartzell Concentrating Co., Allentown, Pa., cor. Eighth and Walnut sts. H. K. Hartzell, prest., T. J. Crane, seey.; W. S. Filling, treas.; T. W. Lhile, mgr., Cap. stk. \$40,000, Rittenhouse Gap. Shart and slopes, 30,000 mgs; steam; furnase. Peter Worst, supt.

Rock Hill Iron & Coal Co., Philadelphia, Pa., 329 Wahnut St. Wm. A. Ingham, prest.; J. E. Haverstick, seey, and treas; A. W. Sims, mgr. Shade Mount, fossil ore. Tunnel, 45,000 tons: horse; furnace, 20,000 tons. J. Repper, supl. Rockhill Furnace

# IRON-(CONTINUED)

LUCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

AND

Scotland ......Franklin Craig Bros. Cap. \$4,000. Brown hematite. Open pit, 3,300 tons; steam. H. F. Craig, supt. Ry, 190.

Seisholtzville Ry. Bittenbender 563.

Berks H. K. Hartzell, Allentown, Pa., cor. Eighth and Wahnut sts. Cap. \$100,000. Bittenbender and Gelmean, red hematite. Slopes and shaft, 60,000 tons; steam; furnaces. A. 6. Sallade, supt.

ShippensburgCumberland George II, Stewart. Neikirk, hematite. Ry, Stewart's Suling 199.

Ry. 11.

Clarion Leonard Fahler. Tunnel and open pit, 2,500 tons, horse and hand,

Smedley Che. Ry, St. Peters 813.

Chester E. & G. Brooke Tron Co., Birdsboro, Pa. Geo, Brooke, prest.; Geo, W. Harrison, treas.; W. Nobe, 813. mgr. and supt. French Creek, hematite. Shaft, 20,000 tons; steam. Berks, Henry Erwin, Bethlehem, Pa., 120 Broad St. Cap. \$25,000. Hoch and Daeneis. Shaft and open pit, 4,800 for.; steam, Simon P. Rang, supt.

5.6

# MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY

Bethlehem Northampton E. C. Boutelle (local). Cap. 85,500. Red hematite and other. Open pit and shaft, 2,000 tons; horse and Ry, 118, 578.

Bower's Station .. Berks J. R. Clair. Cap. 88,000. Clair's, high grade sienna, ocher and oxide. Shaft, 1,200 tons; steam. Ry, 578.

Cedarville Ry, 563, 578.

...Chester C. K. Williams & Co., Easton, Pa. Umber. Shaft, 1,500 tons; water and steam

Fleetwood

.....Berks, C. K. Williams & Co., Easton, Pa. Ocher. Shaft, 1,500 tons; water and steam.

Hancock

Berks, S. Long & Son, De Long, Ph., Can Studio, Ocher, Steam

(P. O. De Long) Ry, 578.

C. K. Williams & Co., Easton, Pa. Hancock. Ocher. 4,500 tons. steam.

Nazareth, "Northampton Henry Erwin, Bethlehem, Pa. Cap. 850,000. Schuabel, ocher. Shall and open pit, 1,200 tons; steam, Ry, 393, 578. Curbon Prince Manufacturing Co., New York City, 71 Malden lane. A. C. Prince, prest, and mgr., David Prince, seey, and trens, Cap. sike, 850,000. Trince, ocher. Shatt, slope and tunnels, 6,500 tons, water and strain; 3 paint mills, 10,000 tons. Henry McFarland, supt.

Ry. Bowmans 393, 501.

Berks, C. K. Williams & Co., Easton, Pa., Sienna. Shaft, 2,000 tons; steam

Shimer

Northampton Henry Erwin, Bethlehem, Pa. Cap. \$50,000. Daniel, ocher. Shaft and open pit, 1,200 tons: steam. (P. O. Santee) Ry, 393, 578.

Topton Ry, Fleetwood 578.

Berks Henry Erwin, Bethlehem, Pa., 129 Broad st. Cap. \$25,000. Hoch and Dienels, other. Shaft and open pit, 2,000 tons, steam. Simon P. Ranig, supt.

#### NICKEL

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MIRE, ANNUAL OUTPUT IN TORS OF 2,00 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Nickel Mines Lancaster Ry, Gap Station 568,

Joseph Wharton, Philadelphia, Pa., P. O. Box 1332. Gap. Shafts, 8,000 tons; steam; cupola. Charles

#### SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF PGWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Tows AND COUNTY Allegheny..... Allegheny Ry, 533, 564, 585, 592,

Haller, Beck & Co., cor. Western and Beaver avs. Works, dairy and coarse. Well, 12,000 brls.; steam. Augustine Haffer, mgr. Cap. \$40,000. Union Salt

Butler Ry, 563, 588, 592,

Butler Chemical Co. J. H. Troutman, prest.; W. J. Cassidy, seey., H. C. Heineman, treas.; Schuyler Frazier, mgr. Cap. stk. \$400,000. All kinds. Well, 50,000 brls.; steam.

SAND		
LOCATION OF MINE OR BANK, RAILWAYS, WATER ROUTES, AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,00 POUNDS, KIND OF POWER  USED, ETC., AND NAME OF SUPERINTENDENT.	
Ry, Granville 563, McVeytown Mifflin	Juniata Sand Co., Thomas Baumgardner, prest.: Geo. M. Franklin, treas.; B. F. Irving, mgr. Cap. stk. \$100,070. Juniata, flint glass sand. Tunnel, 30,000 tons; steam.  C. P. Dull. Cap. \$20,000. Excelsior, white sand. Slope, 20,000 tons; steam and horse.	
(P. O. Mapleton De- not) Rv. 563.	Macklin & Stevenson, M. & S., flint glass sand. Tunnels, 14,000 tons; steam.  Samuel Hattleld jr. Cap. \$12,000. Mapleton, glass sand. Open plt, 36,000 tons; steam.	
Vineyard Miffilm (P.O. McVeytown) Ry. 563.	Enterprise Sand Co., McVeytown, Pa. Wm. Ewing, mgr. and supt. Enterprise, flint glass sand. Tunnels, slope and pit, 25,000 tons; steam; stone mill.	
	SLATE	
LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Quarry, Kind of Slate, Kind of Quarry, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Used, Mills, Etc., and Name of Quarry Superintendent.	
Bangor Northampton	Acme Slate Co. John W. Underhill, prest.; J. H. Shull, seey, and treas.; Wm. A. Winsboro, mgr. and	
Ry. 47, 395, 565,	Aeme Slate Co., John W. Underhill, prest.; J. H. Shull, seey, and treas.; Wm. A. Winsboro, mgr. and supt. Cap. stk. \$150,000. Acme, roofing slate. Open pit, 7,000 tons; steam. American Bangor Slate Co., Easton, Pa., 14 8, Third st. Frank Reeder, prest.; J. Edgar Mitchell, seey, and treas.; Cotton Amy, mgr. Cap. stk. \$109,000. American Bangor, slate. Open pit, 5,000 tons; steam; mill. Wm. Rellow, supt.	
	steam; mill. Win, Kenow, supt.  Auld, Conger & Co. J. W. Conger, prest.; W. E. Lloyd, seey, and mgr. Cap. stk. \$30,000. Bangor Union, slate. Open pit, s000 tons; steam, mill. W. D. Jones, supt.	
	state. Open pit, 8,000 tons; steam, min. W. D. Jones, supt.  Bangor Southern Slate Co., Ltd., New York City, 38 Park row. F. W. Dunton, prest.; E. J. Johnson, seey., treas, and mgr. Cap. stk. \$200,000. Bangor Southern, rooting slate. Open pil; steam.	
14	Sety, Gras. and high Cap. State Co. Cap. \$25,000. Columbia Bangor, roofing slate. Open pit, 6,000 tons; steam. G. H. Mutton, supt.	
**	Northampton Slate Co. Sannel Flory, prest.; E. H. Albertson, secy.; Chris Walters, treas.; Charles Detrick, mgr. and supt. Cap. stk. \$150,000. Northampton, roofing slate. Open pit; steam; udil.	
44 45	North Bangor Slate Co., Newark, N. J., 41 Camp st. Elkanah Drake, prest, and treas.; F. W. Wilkinson, seey.; Chas. E. Snyder, mgr. and supt. North Bangor, slate. Open pit, 54,200 tons; steam; mill.	
Belfast Northampton Ry, 47.	G. Frank Messinger, Tatamy, Pa. Cap, \$25,000. Belfast Hard Vein, slate. Open pit, 1,000 tons; steam Thomas Evans, supt. Northampton Hard Vein Slate Co., Easton, Pa., 700 Walnut av. James Young, prest.; Geo, W. Geiser.	
	Northampton Hard Vein Slate Co., Easton, Pa., 700 Walaut av. James Young, prest.; Geo. W. Geiser seey: Theo, Whitesell, treas, and mgr. Cap. 8tk, \$25,000. Northampton Hard Vein, slate. Open pit 6,000 tons: steam. A. E. Stetler, supf.	
	Pennsylvania Hard Vein Slate Co., Easton, Pa., Easton Trust Co. Bldg. Geo, W. Geiser, prest.; N. A. Fulmer, secy.; Birge Fearson, treas, jugr. and supt. Cap. stk, \$25,000. Pennsylvania Hard Vein slate. Open plt, L900 tons; steam.	
16 46	Portland Slate Co. A. J. Johnson, prest.; J. L. Watson, secy, and treas.; Wm. W. Jones, supt. and mgr Belfast, roofing slate, 6,000 tons; steam.	
66.	Theo, Whitesell & Co., Easton, Pa., 700 Walmit av. Cap. \$10,000. Whitesell Hard Veln, slate. Open pit, 10,000 tons; steam. E. P. Lamb, supt.	
Bethlehem , Northampton Ry, 118, 578.	Old Bangor Slate Co. J. S. Harris, prest.; J. S. Moyer, seey, and treas. Cap. stk. \$250,000. Old Bangor slate. 17,000 tons; steam, horse and hand. Chas. Shuman, supt.	
Brodbeck's Vork Ry, Green Ridge 804.	John Lewis, Llanberis, slate, Open pit; hand.	
Chapman Northampton Ry, and P. O. Chapman Quarries, 395,	Chapman Slate Co., New York City, 502 and 504 West st. Wm. Chapman, prest. and treas.; M. L. Bahn secy. Cap. stk. \$320,300. Chapman Hard Vein, slate. Open pit, 6,500 tons; steam. Richard Chapman, supt.	
Chapman Quarries Northampton Ry, 395.	Keystone Slate Co. Robt, C. H. Brock, prest.: Arthur Brock, seey, and treas.: Henry G. West, mgr and supt. Cap. stk, \$200,000. Keystone, roofing slate. Open pit, 25,000 tons; steam; mill.	
	Excelsior Slate Co., Camden, N. J., Third and Market sts. Wm. Whitmer, prest.; G. W. Creighton, seep and treas. Cap. stk. \$50,000. Excelsior, slate. Open pit; steam (developing). John D. Schafer, supt	
44	Franklin M. Hower, Cap. 875,000. Peach Hill, slate. Open pit, 5,000 tons; steam. J. K. Hower and A. Bossard, supts.	
Delta York Ry. 41.	Arthur E. Edie, Vork, Pa., 30 E. Market st. Cap. \$10,000. Roofing slate. Open pit, 5,000 tons; steam Wm. O. Hughes, supt.	
M	Excelsior Slate Co. R. L. Jones, prest, and gen, mgr.; Fred, R. Williams, seey, and treas. Excelsior roofing slate. Open pit; steam. W. Penn Jones, supt.	
	R. L. Jones & Co. Old Big, roofing slate. Open pit; steam. Peerless Slate Co., Pittsburg, Pa., 47 Seventh st. E. M. Aiken, prest.; H. L. Aiken, seey. Peerless Open pit; steam. John W. Jones, supt.	
14	Open pit; steam. John W. Jones, supt. V. G. Stubbs & Son. Timothy F. Morgan, mgr. Stubbs, roofing slate. Steam.	
	East Bangor Consolidated Slate Co., Sylvester C., Smith, prest.; M. C., Swartsweller, seey, and treas Cap. stk., \$300,000. East Bangor Consolidated, black slate. Open pits; steam; mill. William Bray, supi	

# SLATE-CONTINUED)

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock. Name of Quarry, Kind of Slate, Kind of Quarry, annual Output in Toks of 2,000 Pounds, Kind of Power Used, Mills, Etc., and Name of Quarry Superintendent.
Town and County.	
EastBangor,Northampton (Continued.)	East Bangor Northern State Co., James Masters, prest, and treas,; John Longmead, seey., mgr. and supt. East Bangor Northern, rooting state. Open pit, 1,200 tons; steam.
46	East Bangor Slate Mining Co. Henry Williams, prest.; James Masters, secy., mgr. and supt. Cap. stk. \$12,000. Old East Bangor, roofing slate. Open pit; steam.
**	Standard Slate Co. Cotton Amy, prest, and mgr.; Chas. S. Ford, secy. and treas. Standard, roofing slate. Open pit; steam. Wm. W. Amy, supt.
	Star Slate Co. John K. Ditchett, prest, and supt.; Chas. S. Ford, sery.; Cotton Amy, treas, and mgr. Cap. \$40,000. Star rooling slate. f0,000 tons; steam; mill.
Easton Northampton Ry, Edelman 47.	Edelman's Hard Vein Slate Co. W. Doremus, prest.; H. Trauger, secy.; N. H. Heft, treas.; T. Jones, ngr. Slate. Open pit; steam; 3,000 tons.
Edelman. Northampton Ry, 47.	Flory & Lehr Hard Vein Slate Co., Easton, Pa. F. H. Lehr, prest.; Calvin Arner, seey.; Horace Lehr, treas. Cap. 8tk. 825,000. Flory & Lehr Hard Vein, slate. Open pit; steam. Eugene Hartman, supt.
Lymport Lehigh Ry, 578.	George Bower, Catasanqua, Pa. Cap. \$100,000. Lynn, slate. Steam; mills.
6	Enterprise Slate Co., Philadelphia, Pa., 1822 Filbert et. D. P. Wannamaker, prest.; J. H. Bachman, seey.; J. B. Waidalieh, freas.; O. M. Snyder, agr. Cap. etk. \$50,000. Ontalaunce, slate. Open pit, 6,003 tons; steam; mills. W. Follweiler, supt.
Ry, 47, 565.	Mount Bethel Hard Vein State Co. J. Moore, prest; B. F. Raesly, seey.; R. J. Greever, treas. Cap. stk. \$25,000. Mount Bethel Hard Vein, state. Open plt; steam. Owen O. Williams, supt.
Muney Lycoming Ry, 563, 578.	Keystone Paint Co., Williamsport, Pa., cor, Third and Pine sts. Elisha Gray, prest.; M. L. Downing, seey; H. T. Ames, trens: Ames Hammond, mgr. Cap. stk. 850,600. Slate and silica. Open pit, 500 tons; band; mill. J. E. Barbonr, supt.
Pen Argyl Northampton Ry, 47, 565, 395.	William Harding & Co., Main 8t. Cap. \$10,000. Albion, black rooting slate. Open pit; steam. Reuben Harding, supt.
***	Jackson Bros., J. H. Jackson, prest, seey, and treas.; J. E. Jackson, mgr. Cap. stk. \$10,000. Jackson Bros., rooting state. Open pit, 9,000 tons; steam, mill. John D. Symons, supt.
	Jackson Slate Co., Schank av. and Main st. Richard Jackson jr., mgr. and supt. Cap. stk. \$25,000. St. Ethel, rooting slate. Open pit, 4,800 tons; steam.
53	Lackawanna Slate Co. Geo, H. Miller, prest, and mgr.; John Tinney sr., secy.; A. C. Voung, treas. Cap. stk. \$25,000. Lackawanna, slate. Open plt, 100,000 tons. steam. Joseph B. Kellem, supt.
33 C C C C C C C C C C C C C C C C C C	William Lobb & Sons, Cap, 840,000. Alblon, roofing slate. Steam,
46. 99	William Masters. Cap. \$10,000. Excelsior, rooting slate. 3,600 tons; steam.
	James H. Simpson & Son. Diamond State Works, rooting state. Open pit, 4,500 tons; steam; mills. Frederick H. Simpson, supt.
45	Stephens, Jackson & Co. Courtney, rooting slate. Open pif; steam.
54 63	United States Slate Co. Thos. Lasher, prest., E. K. Armstrong, secy.; John Lobb, mgr. United States, rooting slate. Open pit, 6,500 tons; steam.
Portland Northampton Ry, 47, 565.	Allen, treas, and mgr. Cap. stk. \$125,000. Globe Hard Veni, slate. Open pit.
Seemsyille Northampton Ry, Catasauqua 578.	Ziegenfuse Slate Co. Geo, Ziegenfuse, mgr. Cap, stk. \$20,000. Ziegenfuse, slate. Open pit, 2,000 tons; steam.
Slateford Northampton Ry, 209.	Snowden Slate Co. Henry Green, prest.; John H. King, seey., treas, and mgr. Cap, stk. \$100,000. Snowden, roofing state. Open pit, 1,750 tons; steam; mill. H. P. Jones, supt.
Statlington Lehigh Ry, 3: 3, 578, 565.	Blue Valley Slate Co., Main st. E. D. Peters, prest.; A. P. Neff, secy.; Joel Neff, treas., mgr. and supt. Cap. stk, \$50,000. Blue Valley, roofing slate. Open pit, 6,000 tons; steam; mills.
	Carbon Slate Co. Cap. \$40,000. Carbon, rooting slate; steam and horse, mill. Ellis Owens, supt.
	Samuel Caskie. Heimbach, slate. Pit and shaft, 4,100 tons; steam.
	G. R. Davies & Son. William Penn, roofing slate. Open pit and tunnel; steam.
34	Henry Fulmer. Fulmer's, rooting slate. Open pit, 4,200 tons,
	Henry Kuntz, Cap. \$125,000. Big Franklin, Washington Bangor, 8.lver Brook, Old Washington and Mountain Belle, black roofing slate. Open pits and tunnel, 7,500 tons; steam. James L. Foote, supt.
14	Old Lehigh Slate Co., Philadelphia, Pa., 1926 Arch st. Penlyn, slate. Open pit; steam; factory. W. Bachman, supt.
	E. D. Peters & Co. Cap. \$20,000. Franklin, Union, rooting slate. Open pit, 2,000 tons; steam. Bowman Minnicle, supt.
	Saegersville Slate Quarrying & Manufacturing Co. Chas. M. Dodson, prest.; Geo. W. Schmucker, seey.; Josiah Bachman, treas. Samuel J. Kistler, mgr. and supt. Cap. 8tk. 8150,000. Saegersville, sate. Open pl, 6,000 tons; steam.
11 11	A. P. Steckel. Girard, Dr. Franklin and Hog Franklin, slate. 2,600 tons; steam,
33 15	David Williams. Slate. Open pit, 1,404 tons; steam. J. W. Williams, supt.
3.6 69	O, T. Williams & Son. Cap. \$40,000. Williams' Large Veins, slate. Tunnel; steam.
Steinsville Lehigh Ry, Wanamakers 578.	Rehr & Fricker. Rooting state and flagging. Open pits, 4,000 tons; steam. David Williams, supt.
Treichler's "Northampton Ry, 118.	
Walnutport, Northampton Ry, 118, 565.	R. Raymond Jones. Cap. \$1,500. Roofing slate. Open pit, 500 tons; horse.

" Wm, Griffith & Son, Danielsville, Pa. Cap. \$16,000. Heinbach, slate. Open pit and tunnel, steam.

# SLATE-(CONTINUED)

SLATE-(CONTINUED)			
I Out ppp			
LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATF, KIND OF QUARRY, ANNUAL OFFITF IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.		
TOWN AND COUNTY.			
	Reading Slate Co., Philadelphia, Pa., 122 Eutaw st. – Jos. Lieberman, prest.; August Liebold, seey.; James V. MacDonnell, trens.; John Jones, mgr. and supt. Cap. stk. \$100,000. Reading, roofing slate. Open pit, 600 tons; steam.		
West Bangor Vork Ry, Delta 41.	Edward W. Evans & Co., Ltd., Pittsburg, Pa., 1012 Penn av. W. J. Rowlands, prest.; E. W. Evans, seey., mgr. and supt.; P. L. Gouleon, treas. Cap. stk. \$5,000. Roofing slate. Open pit, 1,000 tons; steam.		
Wind Gap Northampton Ry, 47, 395, 565.	Alpha Slate Co., Bangor, Pa. Wm. A. Winsboro, prest., mgr. and supt.; H. Underhill, secy.; Miner Trowbridge, treas. Cap. stk. \$150,000. Alpha, roofing slate. Open pit; steam (developing).		
Company of the second	Imperial Slate Co., Strondsburg, Pa. H. J. Kotz, prest.; Morris Evans, seey.; Allen Metzgar, treas.; Robt, J. Vasseur, mgr. and supt. Cap. stk. \$150,000. Imperial, roofing and school state. Open pit. 2,500 (tons; steam.)		
*	Wind Gap Slate Mfg. Co., Belvidere, N. J. Ellwood Vapbinder, prest.; P. S. Yetter, seey.; Reuben Emery, treas.; C. Stanley, mgr. and supt. Cap. stk. \$60,000. Wind Gap, slate. Open pit: steam; mill.		
ST	ONE, MARBLE, GRANITE AND ONYX		
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMERILINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTERDENT.		
TOWN AND COUNTY.			
Agnew Beaver Ry, Conway 563.	John Romigh. Charles Cheney's, freestone and sandstone.		
Annyille, Lebanon Ry, 578.	Batdorf & Beaver. West Annville, limestone. Open pit, 15,000 tons; limekilns, 6,000 tons.		
"	Maulfair & Forney, M. & F., limestone, Slope; hand and steam; limekilns, 8,400 tons.		
Avoca Luzerne Ry. 213, 252, 118, 393.	Seamans & Hollister. Avoca Stone Quarry, greenstone. Open pit; horse; mill.		
Avondale Chester Ry, 563, 577.	Aeme Lime Co., Ltd. R. H. Hepburn, prest, and mgr.; J. Kirk Mevins, seey.; Joshua Hunt, treas. Cap. 8tk. \$12,000. Acme Avondale, silica, marble. Open pit, 37,000 tons; steam. George M. Keir, supt.		
44	Avondale Lime & Stone Co., Philadelphia, Pa., 2202 Chestant st. Wm. Henderson, prest, Samuel Gayley, seey.; Frank Williamson, treas.; John G. Williamson, ugr. Cap. stk. \$50,000. Avondale, limestone, open pi. 75,000 tons, steam and horse; mill, limesting, 10,500 tons. J. Warren Dixon, stpt.		
Birdsboro, Berks Ry, 563, 578, 820.	James Humphreys. Cap. \$2,000. Hampton, brownstone. Open pit, 3,000 tons; horse and hand.		
Birmingham, Huntingdon Ry, 563,	Cambria Iron Co., Philadelphia, Pa., 218 S. Fourth et., Powell Stackhouse, prest.; — Kyle, seey.; W. S. Robinson, treas.; Class S. Price, gen. mgr. Birmingham, limestone. Open pit, 200,000 tons; Steam; mill. S. B. Isenberg, supt.		
BlairsvilleIndiana Ry, 563.	Annie M. Wilson. Feldman, building stone. Hand. W. D. Jones, supt.		
Bradford McKean Ry, 85, 12, 503, 72.	National Brick & Tile Co., 18 Main st. L. Emery jr., prest.; Robt. L. Edgett, secy. and treas.; C. M. Cook, mgr. Cap. stk. \$20,000. Lewis Run, red shale. Open pit; steam.		
Carlin Blair (P. O. Williamsburg) Ry, 563.	ingr. (4p. 8tk, 89,000). Lewis Kun, Fet sande. Open pit, Secam. Juniata Limestone Co., Ltd., Williamsburg, Pa. J. K. McLanaban, prest.; W. L. Baldrige, seey. and treas; Wm. Bice, mgr. Cap. 8tk, \$50,000. Juniata, limestone. Open pit, 300,000 tons; steam and compressed air.		
Chester Delaware Ry. 42, 563, 578.	C. W. Andrew (local), 1512 Highland Terrace. Granite. Open pit, 4,500 tons; hand.		
66 66	Leiper & Lewis, Philadelphia, Pa., 2301 Chestnut st. Cap. \$55,000. Leiper & Lewis, gneiss, granite. 20,000 tons; steam and horse.		
	S. S. Detwiler & Co. Cap. \$75,000. Detwiler's, stone. Open pit, 30,000 tons; dynamite. Nelson Cooper, supt.		
Columbia Lancaster Ry, 578, 563.	S. & G. Hoffman. Cap. \$3,000. Hoffman's, limestone. 22,500 tons; steam; mill. S. S. Hoffman, supt.		
Connellsville : Fayette Ry, 42, 563.	Hope Manufacturing Co. W. D. McDowell, prest.; David Williams, secy. and treas.; R. J. McDowell, mgr. and supt. Cap. stk. \$8,000. Hope, sandstone. Open pit, 12,000 fons; steam; sand mill.		
**	Keeling, Ridge & Co., Pittsburg, Pa., 114 Smithfield st. Cap. \$1,000,000. Belgian Block, paving blocks. Open pit: steam, horse and hand. Patrick Ridge, supt.		
40	Snyder & Blair, Cap. \$5,000. Sand Rock, white sandstone. Open pit; horse (developing). Geo. B. Snyder, supt.		
Conway StationBeaver (P. 0, Park (Quarries) Ry, 563.	Park & Park, Park Quarries, Pa. Baden, building stone.		
CrowtherLawrence Ry, 592.	Laughlin & Co., Ltd., Pittsburg, Pa., cor. Third av. and Try st. H. A. Laughlin, prest.; James Laughlin, jr., seev. and treas; W. C. Quiney, mgr. Newton's, limestone. Open pit, 67,200 tons; hand and steam; mill. Daniel Jones, supt.		
Dillsburg	Fehl Bros. (bocal). Cap. \$4,000. Evans, limestone. Open pit. 24,000 tons; horse; kilu, 1,200 tons. John Fehl, supt.		
Durlach Laneaster Ry, Ephrata 578.	Hehniy & Wike. Turkey Hill and Cocalico, pebble flint sandstone. Open pit, 200 tons; hand; mill.		
to to	Benjamin Wissler, Lincoln, Pa. Cap. \$5,000. Cocalico, millstone. Open pit, 50 tons; hand; mill.		

Easton ... .. Xorthampton Ry. 118, 261, 323, 563.

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STONE	C. MARBLE, GRANITE AND ONYX-(CONTINUED)
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OI, INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KINO OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDB, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERLINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDEDT.
TOWN AND COUNTY.	CAPACITI, EIC., AND NAME OF MINE SUPERINTENDENT.
Easton Northampton (Continued.)	C, K. Williams & Co. Soapstone. Open pit, 2,000 tons; water and steam.
Frankford., Philadelphia Ry, 563, 578.	Barbour & Ireland, Cap. \$30,000. Frankford, blue gneiss and granife. 40,000 tons; steam; mill. E. Bytheway and M. Deni, supts.
Freeburg Snyder Ry, Selins Grove, 563.	H. 41, Glass. Limestone. Limekiln, 500 tons.
Germantown Philadelphia Ry. 563, 578.	James S. McKinny, 139 Maplewood av. Cap. \$3,000. McKinny's, hornblende, gneiss. Open pit, 4,000 tous; steam and horse. R. K. D. McKinny, supt.
**	C. S. Pyle, Wayne st. Germantown, hard bluestone. Slope; steam; mill.
Geffysburg. Adams Ry, 578, 804.	J. W. Flaharty. Wolf Hill, granite. 400 tons; hand,
46	Nathanlel Lightner. Powers Hill, diabase, granite. Open pit; hand.
Graeffenburg Adams Ry, 563.	Caledonia Mining & Manufacturing Co., New York City, 33 and 95 Nassan 8t. Wm. H. Male, prest.; J. P. Ranney, seey, and treas; James J. Morehouse, mgr. and supt. Cap. 8tk. \$250,000. Pond Bank, white grante and film. Open pit; steam; mill.
Greenville Mercer Ry, 563, 503, 588.	Amy & Co. Cap. 85,000. Flagstone. Open pit; hand and steam; mill. C. E. Amy, supt.
Grovania Montour Ry, 578.	John Christian.
Helicrtown Northampton Ry, 578.	$\label{eq:Hamiltonian} \text{H. D. Heller. Stevens, limestone.}  \text{Open pit, } 28,000 \text{ tons.}  \text{Hand and horse.}  \text{Samuel-Kostenbader, supt.}$
Holmesburg Philadelphia Ry, 563,	House of Correction, Philadelphia, Pa. dames A. Freeman, prest. House of Correction, bluestone. 22,723 tons; steam, horse and hand; mill.
Hooversyllle, . Somerset Ry, 42,	1, J, Blough & Son (local), -Limestone, -Tunnel, 50 tons; -hand; -limekilm, 50 tons,
HummelstownDauphin Ry, 578.	Christian Hershey, Cap. \$50,000. Brookside, limestone. Open plt, 36,500 tons; herse; mill, limekiln, 15 tons.
45	Maulfair & Forney, Annylle, Pa. Eagle, limestone. Slope; hand and steam; limekilns, 8,000 tons.
46 59	Middletown & Hummelstown Stone Co. Jos. Campbell, prest.; Chas. Raymond, secy.; Geo. H. Grove, trens, ingr. and supt. Cap. stk. \$75,000. M. & H., brownstone and limestone. Slope, 80,000 tons steam; mill.
Idaville Adams Ry. 578.	Sylvester Fishel. Cap. \$5,000. White flint stone. Open pit, 3,000 tons; horse. H. J. Gardner, supt.
Ironton Lehigh Ry, 330.	Diehl & Folk. Diehl's, slate stone. Open pit, 18,000 tons; steam; mill.
\$6 \$e	Thomas Iron Co., Hokendanqua, Pa. Samuel Thomas, prest.; Wm. Andrews, mgr. Schadt & Keefer's, limestone. Open pit, 20,000 tons; steam. Joseph Keefer, supt.
Jersey Mills Lycoming Ry, 257.	J. R. Glover. Cap. $\$20,000$ . Glover and Underwood. $3_{\rm c}500$ tons: horse and hand.
44	Thomas Parker, Flagstone. Open pit; horse and hand.
Knaner Town Chester (P. O. St. Peters) Ry. 578.	Davis Knauer, Cap. 850,000. Fails of French Creek, paying stone. 7,500 tons; steam; mill. John Benny, supt.
Lancaster Lancaster Ry, 563, 578.	Dr. I. H. Mayer, Willow st. Gnelss building stone. Hand.
Langhorne Bucks Ry. 563, 578.	Langhorne Spring Water Co. Charles Hill, prest.; John S. Wright, secy, and treas. Building stone. Open pit, 1,000 tons; hand.
Lenox Susquehanna Ry, Nicholson Station 200,	Hiram Buck, Cap. \$1,500. Buck, bluestone. Open pit, hand,
	Jesse Hibberd. Gnelss rock,
Littlestown Adams Ry. 563,	George N. Riffle & Bro. Cap. \$1,500. Limestone. Steam; mill, limekilm, 800 tons.

McKee's Gap. . . . Blair Juniata Ganister Co. A. S. Morrow, prest.; d. L. Hartman, seey., treas. and mgr. Cap. stk. §50,000, Ry. 563. McKee's Gap. ganister. Slope, 40,000 tons; dynamite. Harry Sellers, supt.

Mahoning.... Armstrong McElravy & Stone. Mahoning, limestone. Open pit, 6,519 tons. Ry. 11.

pleton. ...Huntingdon Speer White Sand Co., Pittsburg, Pa., Hamilton Eddg. J. H. Speer, seey. and treas.; X. Q. Speer, mgr. (P.O.Mapleton Depot) Cap. stk. \$550,000. While sandstone. Open pit, 60,000 tons; steam. L. M. Speer, supt. Ry, 553. Mapleton. Swope & Gayton. Swope & Gayton's, hmestone and sandstone. Open pit. 1, N. Swope, supt.

Marble Hill Somerset Marble Hill Quarry Co., Pi,tsburg, Pa., Penn av. Robert Smith, prest.; A. P. Kertland, seey, and treas. (P. O. Confluence) Ry. E. K. Morse, mgr. Cap. stk. \$30,000. Marble Hill, brown ligonier, granite. Slope; steam. D. W. Patton, supt.

Mertztown . . . . . Berks Henry J. Trexler . H. J. Trexler's, limestone. Open pit, 4,500 tons , steam, mill, limekiln, 4,000 tons. John Ry, 578.

Mt.Pleasant.Westmorel'd J. H. Rumbaugh (local). Limestone. Open pit, 900 tons; hand; kiin, 900 tons. Ry, 597.

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### STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STUCE.

Location of Mine or Quarry, Railways, Water Routes and Shipping Point, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT. COUNTY. Town AND New Brighton New Galilee... ... Beaver Joseph Hartman & Son, Pittsburg, Pa., 6215 Station av. Hartman's, sandstone Ry. 563. Park & Park, Park Quarries, Pa. New Galilee, dimension building stone. Nicholson. . . . Wyoming Moses Shields jr. Cap. \$20,000. Nicholson, flag and building stone. Open pit, 9,000 tons; horse and steam, Orbisonia. .Huntingdon J. Brodbeck. Grove, limestone. Open pit, 300 tons, Ry, Rocky Hill 23: Overbrook. Montgomery J. T. Stadelman', Stadelman's, blue granite. Open pit; steam. Ry, 563. Palmyra . Lebanon Manifair & Forney, Annville, Pa. Gingrich, limestone. Slope; steam and hand; limekilns, 8,000 fons. Ry. 578. Perkiomenvill Fisher & Son. Cap. \$2,000. Deep Creek, Belgian blocks and dimension stone, Hand; stone mill, 200 tons, Ry. 573. Montgomery. Picture Rocks, Lycoming Charles F. Billamboz, Picture Rocks, bluestone, flagging. Open pit, 5,000 tons; hand. Ry. 815. George West, Cap. \$2,000. Picture Rocks Stone Works. Open pit, 200 tons; hand, Pitfston..... Luze Ry, 118, 209, 252, 393. Luzerne | Symington & Perrin, 9 Montgomery st. Blue building stone. Open pit; steam. Ridley Park. Ry. 577, 42. ... Delaware Joseph H. Ward. Cap. \$15,000. Crum Creek, gray granife. Open pit, 14,000 tons; steam. Joseph Smiley, supt. Rockwood ...... Somerset J. C. McSpadden. Cap. \$25,000. Somerset, blue] and brown paving blocks. Open pit, 50,000 tons; steam; Ry. 42. Berks Keystone State Granite Co., Shenandoah, Pa., 127 N. Jardin st. J. H. Master, prest.; M. H. Master, seey. and mgr. Granite. 200 tons; horse. Seisholtzvalle Ry. 578. Shainlines Montgomery Wm. P. David & Co. Limestone. Open pit; horse and hand; kiln, 11,812 tons. (P, O, Bridgeport) Ry. 578, Sherman rman ...... Wayne Ry, Hales Eddy 503. O. M. Kingsbury & Co., Hales Eddy, N. Y. Flagstone. Open pit; hand, Silvara Bradford W. A. Bennett. Cap. \$5,000. Bennett's, flagstone. Tunnel, 2,400 tons; horse. Ry.Skinners Eddy 578. Spragueville Monroe (P. O. Analomink) Ry. 209, Detrick & Cramer, Analomink, Pa. Cap. \$2,000. Spragueville, bluestone, rock powder. Mill. Spring Creek Sta. Lehigh (P. O. Trexlertown) John A. Walbert. Limestone. Open pit, 6,000 tons; horse and hand. Jacob Miller, supt. Ry. 110. Spring Mill Montgomery (P. O. William Penn) Ry, 573, 578. William Little, William Penn, Pa. Gray ironstone. Open pit; steam; stone mill.

Spring Mt. . . Montgomery Ry, 578.

Starrucca ... Wayne Ry. 503.

Swatara Station Dauphin Rv. 578.

Uriah... Cumberland Ry. 578.

Walkers Mills . Allegheny Ry. 584.

Wampum

Ry. 563, 592.

Lawrence

Waynesburg Greene Ry. 804.

Wernersville

West Conshohocken Montgomery Ry, and P. O. Consh hocken 578.

West Le Roy,...Bradford Ry, Canton 528.

Westmoreland Westmoreland (Not a P.O.) Ry, 563.

Williams Mill. Cumberl'd Ry. Williams Grove 578, Winfield .

Ry. 578.

J. E. B. Phillips & Sons. Cap. \$200. Rees, building stone. Open pit; mill.

kiln, I. H. Balsbaugh, supt.

O. M. Kingsbury & Co., Hales Eddy, N. Y. Flagstone. Open pit; hand.

J. A. Ruth. Ruth's, limestone. Open pit; limekiln, 320 tons. Philadelphia & Conshecton Stone Quarry Co., Philadelphia, Pa., 216 South Fourth st. E. J. Matthews, prest; H. C. Eggleston, seey, and treas; F. D. Koch, ugr and supt. Cap. stk. \$100,000. Philadelphia & Conshecton, foundation and building stone. Open pd. 20,000 tons; steam and hand.

J. W. Klein. Cap. \$30,000. Spring Mount, granite. Open pits, shaft, 8,000 tons; steam and hand; mill.

Swatara Stone & Lime Co. Cap. \$10,000. Swatara, limestone. Open pit, 250,000 tons; horse and hand;

Sylvester Fishel, Idaville, Pa. Cap. \$5,000. White flint stone. Open pit, 3,000 tons; horse, Birten Beam, supt.

Walkers Mills Quarry Co. W. W. Hazlett, mgr, and supt. Cap. 8tk, \$20,000. Walkers Mills, sandstone, Open pit, 50,000 fons: steam, horse and hand.

Consolidated Stone & Mining Co., Pittsburg, Pa., 91 Fifth av. John G. Ingham, prest.; G. B. Ingham, mgc. Cap. stk. \$25,000. Rock Point and Spangler, sandstone. 25,000 tons; steam, horse and hand.

Thomas Sutton, Canton, Pa. Cap. \$2,000. Bluestone. Open pit, 100,000 tons; electricity; mill. Samuel Owens, supt

Westmoreland Fire Brick Co., Pittsburg, Pa., Hamilton Bidg., John George, prest.; M. M. O'Connell, seey, and gen, mgr.; John A. Wilson, Ireas. Cap. 8tk. 800,000. Westmoreland, fire clay and sandstone, Tunnel; steam (developing). F. R. Reed, 8upl.

K. Spahr, Williams Mill, Pa. Williams, lime and building stone. Open pit; electricity and hand; lime-kilms, 1599 fons.

., Union C. M. Rooke & Co. Winfield, limestone. Open pit, 4,500 tons; horse and hand; Kiln, 4,500 tons.

### STONE MARBLE GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

P. O. Milford Station) Ry. 42.

Somerset Somerset Stone Co., Johnstown, Pa., 88 Franklin st. John Murdock, prest, and mgr.; J. M. Lawyer, seey.;
 I Station) J. M. Murdock, treas. Cap. stk, \$60,000. Bare Rock, sandstone. Open pit, 30,000 tons; steam.

Wrightsville . . . . . Vork Kerr Bros. Cap. \$20,000. Limestone. Open pit, 30,000 tons; steam; limekilns, 30,000 tons.

Wyalusing Bradford D. V. & L. W. Caswell, Lime Hill, Pa. Flag and curbstone. Open pit; hand. (P. O. Lime Hill) Ry. Hornets Ferry 333.

SEE ALSO SUPPLEMENTARY LIST

# RHODE ISLAND

# COAL BITUMINOUS

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIFPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Providence Blackstone Coal Mining Co. C. H. Clark, prest.; John F. Clark, seey.; Edmund Clark, treas. Cap. stk. \$20,000, Blackstone. Shaft, 600 tons, steam, Valley Falls 1 Ry, 504, 513.

#### STONE, MARBLE, GRANITE AND ONYX

Location of Mine on Quarry, Railways, Wafer Routes and Shipping Point. Town COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Burrillyllle Providence (P. O. Mapleville) Ry. Oakland 513. Crompton Kerreville 513.

Providence Oakland Granife Co., Providence, R. I., 48 Exchange pl. 41, 8, Taft, ngr. Cap. stk. \$20,000. Oakland, pleville) Ry. — granife. Open pit, 25,000 tons; steam, horse and hand. Paul Brodle, supt.

Johnston .. Providence

Kent, Joseph M. Tarbox, East Greenwich, R. L. Cap. \$1,500. Tarbox, granite. 200 tons; hand.

R. W. Harris (local). Cap. \$2,000. Granite. Open pit, 500 tons; steam.

E. H. Angell (local). Granite. Open plt; horse and hand.

Ry, 481, 498, 540,

Newport A, T. Anthony, Coggeshall av. Cap. \$2,000. Anthony's. Open pit, 5,000 tons; hand; stone mill.

Niantie Washir Ry, Westerly 50s. North Kingstown Washington

Joseph P. Cotton (local), 201 Thames st. Granite. Open pit, 2,000 tons, steam. James A. Austin, supt. Washington A. G. Crumb & Sons. Cap. \$35,000. Granite. Open pit, 2,000 tons; steam. E. A. Crumb, supt.

P.O.& Ry. Wlekford 499

Olney Granite Co., Wiekford, R. I. Cap. stk. \$600. Olney's, granite. Slope, 2,000 tons; horse and hand.

Smithfield. Ry. 513.

Providence John W. Mathewson & Son, Greenville, R. 1. Clarence H. Mathewson, mgr. and supt. Cap. \$8,000. Waterman Ledge, granite. Open pit, 2,000 tons; steam.

Ry. 508

Washington Calder & Carnie, 47 Dixon st. Cap. \$5,000. Calder and Carnie, granife. Open pit, 3,000 tons; horse.

John E. Collins. Cap. \$10,000. Cormorant Hill, granite. Open pit; steam. Adam B. Archie, supt.

rray, Archie & Co. George Thackeray, prest.; 4as. C. Archie, secy.; Wm. G. Archie, treas.; John Murray, mgr. and supt. Cap. stk. \$10,000. Granite, \$,000 tons; steam. New England Granife Works, Hartford, Coun., 650 Main st. James G. Patterson, prest, and treas.; W. V. Wightman, seey.; James Gourley, mgr. and supt. Cap. 8tk. \$250,000. Rhode Island, granife. Open pit and Slope, 13,345 tons; steam; mill.

SEE ALSO SUPPLEMENTARY LIST

# SOUTH CAROLINA

#### BARYTES

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

COUNTY

Blacksburg ...... Vork Blacksburg Mining & Milling Co. J. W. Bettin, prest, and mgr.; John T. Jones, seey.; Thos. B. Gautier, Ry, 622, 121. treas. Cap. stk. \$50,000. Westmoreland. Open pit, 10,000 tons; hand. H. C. Wilkins, supt.

Blacksburg Mining & Milling Co. J. W. Bettin, prest.; John T. Jones, secy.; Thos. B. Gautier, treas, J. D. Bettin, mgr. Cap. stk. \$50,000. Kings Creek. Open pit and tunnel, 15,000 tons; water. Jacob Johnson, supt.

#### GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Glenn Springs Ry, Spartanburg 622.

Union Golden Gate Mining Co., Spartanburg, S. C. E. N. Higley, prest., mgr. and supt.; R. A. Oliphant, secy.; g 622. Andrew Thome, treas. Cap. stk. \$100,000. Golden Gate, gold. Placer; hydraulic and steam.

HaileGoldMine Lancaster Ry. Laneaster 121, 622.

Thomson Gold Mining Co., Spartanburg, S. C. William Fowler, prest.; L. C. Caunon, seey, and treas.; Edward Mcbowell, mgr. and supt. Cap. stk. \$100,000. Thomson, gold. Shafts and open pits, 9,000 tons; free; steam: 10 stamps. Haile Gold Mine Co., New York, N. Y., 32 Burling slip. Geo. H. Sexley, prest.; Alfred F. Cross, treas.; A. Thies, mgr. and supt. Haile, gold. Shafts, 30,000 tons; free and refractory; steam; 60 stamps.

Willie...... Spartanburg Ry, Greers 622 (8 miles from mine).

Wolfe & Tyger Mining Co. of South Carolina. L. W. Jordan, prest, and mgr.; H. K. Sullivan, seey, and treas. Cap. stk, \$200,000. Gold. Shafts and placer; free and refractory; steam and water; 10 stamps (developing). John T. Whitener, supt.

# IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

AND

Yorkville Ry. 121, 622. York Nannie Mount Acid & Mining Co. Major Jas. F. Hart, prest.; A. E. Wemple, secy. and treas.; J. G. Me-Nulty, mgr. and supt. Cap. stk. \$300,000. Iron. Slope, shaft and tunnel; 45,000 Ions; steam.

# KAOLIN

Location of Mine or Bank, Railways, Water Routes, and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTERDENT.

Langley..... Rv. 690, 622.

Aiken T. G. Lamar Kaolin Co. R. H. Walker, prest.; W. J. Oliver, secy. and mgr.; W. W. Woolsey, treas. Cap. 8tk. \$50,000. Open pit, 8,000 tons; horse.

#### MICA

LOCATION OF MINE. RAILWAYS, WATER ROUTES NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND AND SHIPPING POINT. OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT. Town AND COUNTY. Pickens J. E. Hagood. Cap. \$100,000. Polly Blackstone, mica and asbestos.

Ry. Easley 622. . . . . . . . . J. K. Kirksey, Mica.

LOCATION OF MINE, RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

#### PHOSPHATE

TOWN AND COUNTY.	MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Ashley Phosphate	Wayne & Von Kolnitz, Charleston, S. C., 147 E. Bay st. George F. von Kolnitz, i
Ry. 690. Berkeley	Palmetto. 45,000 tons; steam and hand.
Beaufort Beaufort Ry, 280.	Farmers Mining Co., Charleston, S. C., 47 Broad st. Paul S. Felder, prest.; Pinckney jr., treas.; A. F. Felder jr., mgr. and supt Cap. stk. \$70,000. Famill, 56,000 tons.
Charleston Charleston	Ashley Phosphate Co. F. L. Frost, prest.; J. P. De Saussine, secy. and treas.;
Rv. 31, 690.	Cap. stk. \$08,000. Ashley. Shaft and dredge, 10,000 tons; hand and steam

Beaufort Ry. Bull River 31.

Magnolia..... Berkeley (P. O. Ten Mile Hill) Ry, 690,

St. Andrews Parish Berkeley P. O. & Ry. Charleston 123, 524, 690, 31 (16 m.). Sheldon Beaufort

Ry. 280. Berkeley Stono Ry, Charleston Jn. 123

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

mgr. and supt. Cap. \$55,000.

E. F. Witsell, secy.; C. C. armers. 40,000 tons; steam; 4. B. Davis, mgr. and supt. i; mill, 2,000 tons.

T. D. Dotterer, 332 Meeting st. Cap. \$25,000. Dotterer. 5,000 tons; steam.

Mead Phosphate Co., P. O. Box 125. Thomas Royle, prest.; T. W. Webb, seey.; T. R. Webb, treas, and mgr. Cap. stk. \$20,000. Rock. Open pits, 20,000 tons; steam; mills, 20,000 tons.

8t. Helena Phosphate Co., Boston, Mass., care of Klidder, Peabody & Co., 22 Broad st. W. E. Stowe, prest.; F. H. Armstrong, treas.; George W., Roberts, mgr., and supt. Cap. stk. \$600,000. Chisolms Island, rock. Open plf, 90,000 tons; steam; mill, 30,000 tons.

gnolla Mining Co., Charleston, S. C., Broad st. C. C. Pinekney, prest.; E. T. Witsell, seey.; R. B. Cuthbert, mgr. Cap. sfk, \$50,000. Rock. Open pit, 40,000 tons; hand.

Chas, H. Drayton, Charleston, S. C., 25 E. Battery. Drayton Hall, rock. 42,000 tons; steam and hand. J. G. Wilkinson, supt.

Bull River Phosphate Co., Ltd., London, Eng., 2t Mineing lane, E. C. A. G. Nichols, mgr. and supt. Williams Island, rock. Open pit; mill.

Bolton Mining Co., Charleston, S. C., 2 Broad street. David Roberts, prest.; Kirby S. Tupper, seey., treas, and mgr.—Gap. 5tk \$39,000. Bolton, rock. Open plf, 30,000 tons; steam and hand; mill, 30,000 tons. S. C. Brown, supt.

Win, L. Bradley, Boston, Mass., 27 Kilby st. Bulow, rock. Open pit, 55,000 tons; hand and steam. Geo, S. Geer, supt.

St. Andrews, Phosphate Mining & Milling Co., Charleston, S. C. F. G. Latham, prest.; E. C. Williams Jr., seey, and treas. J. B. Gist, mgr. Cap. stk. \$200,000. St. Andrews, rock. Open pit, 23,000 tons; steam.

### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, COUNTY. Town

NAME OF MINE OF QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMEEILNS AND CAPACITY, F.TC., AND NAME OF MINE SUPERINTENDENT.

Columbia Ry, 622, 688, 690, 817. Newberry

, Richland Stewart Stone Co., George A. Shields, prest., A. R. Stewart, secy., treas, and mgr. Cap. 8tk. \$10,000, 847.
Granite. Slope and open pit, 50,000 tons; steam; mill. Newberry | Leavell & Speers (local). Granite. Open pit; hand.

Ry, 622, 690, Rockton ... Fairfield Winnsboro Granite Co., Charleston, S. C., 59 Broad St. James F. Redding, prest.; Leon C. Ferrall, seey, and treas.; A. W. St. Amand, mgr. and supt. Cap. stk. \$60,000. Winnsboro, granite. 45,000 tons; Ry. 622. steam.

SEE ALSO SUPPLEMENTARY LIST

# SOUTH DAKOTA

# FIRE CLAY

Location of Mine or Bane, Railways, Water Routes, and Shipping Point. AND COUNTY.

Namf of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine of Bane, annual Outfut in Tons of 2,000 Founds, Kind of Fower Used, Erc., and Name of Stderhitendert.

TOWN

Rapid City.... Pennington Charles Marshall. Cap. \$45,000. Open pit; steam. Ry. 274.

# GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	OF TOWER COED, OTHER MIDES, DIC., AND TAME OF MINE SUPERINTENDENT.
BaldMtn.Mines.Lawrence P. O. and Ry. Dead- wood 20s, 88, 274.	Bald Mountain Consolidated Milling Co. W. E. Herron, prest, and mgr.; O. U. Pryce, secy.; W. F. Snu treas. Cap. stk. 83,000,000. Annie, Josie, Katie, Boomer, gold. Shaft, 15,000 tons; refractory; stea mill. Osear Waller, supt.
Bear GuichLawrence Ry, Deadwood 88.	W. A. Rinehart and others. Inter Ocean, gold and tin. Shaft, open pit; free, refractory.
CarbonateLawrence Ry, Deadwood 208, 88, 274.	Iron Hill Mining Co. R. W. Cooper, prest, mgr. and supt. John Baggaley, seey.; L. W. Valentine, tree Cap. 8th, \$2,500,000. Fraction, Blue Bird and 6 others. Shaft, tunnel; refractory, free; steam; all 20 stamps.
entral City Lawrence Ry. 274.	Deadwood-Terra Mining Co., James B. Haggin, treas.; T. J. Grier, mgr. Cap. stk. \$200,000. Deadwood Terra, gold. Shaft, tunnel, 400,000 tons; free; steam; 260 stamps. Richard Blackstone, supt.
46	Monitor Mining Co., Deadwood, S. Dak. Daniel McLaughlin, prest.; W. L. McLaughlin, seey. and trea George Cassels, ngr. and supt. Cap. stk. \$250,000. Monitor, Blaine, Reno and 7 others, gold. Tunn 1,000 tons; free; steam; 25 stampe.
	Scotia Mining Co. George Cassells, prest.; W. L. McLaughlin, seey, and treas.; John Cassels, mgr. a supt. Scotia, Flora Belle, gold. Tunnel, 500 tons; free.
'uster Custer Ry. 88.	Brownlee & Booth. Sunrise, Young Bill, gold. Open pit, shaft; refractory; hand. James Brownle supt.
6.	H. G. Butterfield, Bonanza, Sentinel, gold. Shaft (developing).
	Grand Junction Mining & Milling Co., St. Lonis, Mo. Josiah Alkire, prest.; Fred Beimess, seey, a freas.; James Morrisey, ingr. Cap. stk. 81,000,000. Grand Junction, gold. Shaft, tunnel, 24,000 to free, refractory; steam; 40 stamps. C. W. Robblins, supt.
**	Wm. Nevice, Scotland, gold. Shaft, tunnel. A. Smith, supt.
44	H. N. Ross. Old Bill, gold. Shaft; refractory; hand.
4.	Thomas Irving Wheeler. Neptune, gold. Tunnel; refractory; hand.
Deadwood . Lawrence Ry. 88, 208, 274.	Carthage Silver Mining Co. Robert Graham, prest.; A. J. Plowman, secy. and treas.; S. P. Roman, m and supt. Cap. stk. \$500,000. Boston, Carthage, gold and silver. Shaft; refractory; steam.
**	Florence Mining Co. J. W. McDonald, prest.; A. R. Dawson, secy. and treas.; H. B. Young, gen. m Cap. stk. \$250,000. Florence, gold. Tunnel, 9,000 tons; refractory. Richard W. Richards, supt.
61 61	Hardin-Baker Gold Mining Co., Milwankee, Wis., 345 E. Water st. Isaac D. Adler, prest.; Eugene Friend, secy.; Jonas Cohen, treas. Cap. stk. \$500,000. Hardin-Baker, gold. Shaft; free; steam (veloping). A. M. Hardin, supt.
**	Jefferson Consolidated Silver Mining Co. C. W. Carpenter, prest.; Wm. Selble, seey., treas. and m Cap. stk. \$250,000. Hercules, May Queen, gold, silver. Shaft, tunnel; refractory.
** .	New Laplata Mining Co. C. W. Carpenter, prest.; E. Vancise, secy.; Wm. Selbie, treas. Cap. stk. \$2,000. Laplata, Cashier, gold and silver. Shaft, tunnel: free, refractory.
** . **	Portland Consolidated Mining Co., Clinton, Iowa. George M. Curtis, prest.; C. E. Webb, seey.; W. Thompson, treas.; W. D. Ford, mgr. and supt. Cap. stk. \$10,000,000. Portland, gold and silver. Tunel; refractory (developing).
44 44	Ross-Hannibat Mining Co., S. P. Romans, prest., mgr. and supt.; A. J. Plowman, seey, and treas. Castk, \$2,500,000. Hannibat, Roanoke, gold, silver. Tunnel, 800 tons; refractory; steam.
46 16	Ruby-Wilks Mining Co. M. H. Lyon, prest.; F. E. Ickes, seey., treas, and mgr. Cap. stk. \$1,250.6 Ruby-Wilks, gold. Open cut, tunnel, shaft, 4,500 fons; refractory; steam; chlorination process. Richa Richards, supt.
Ry. Portland 88.	Shumbering Bonanza Mining Co. Abram Kelder, prest.; A. R. Z. Dawson, secy.; Frank E. Ickes, trea Abram Kelder, mgr. and supt. Cap. stk. \$250,000. Slambering Bonanza. Shaft, open cut; refracto.
Galena Lawrence Ry. Whitewood 274.	Bullion Mining Co. S. A. Flower, prest, treas,, mgr. and supt.; John Baggaly, seey. Cap. 8tk. \$1,250,0 Bay State, silver. Tunnel, shaft; refractory.
	Coletta Group. C. B. Harris, mgr. Coletta, gold, silver. Tunnel, 3,000 tons; horse.
44	Conzett & Bullock. Emma, silver and lead. Tunnel, shaft, 100 tons; refractory. James Conzett, supt.
44	Cora Mining Co. K. G. Phillips, prest.; H. Fairbanks, secy.; C. G. Fargo, treas.; W. Groshong, m Cap. stk. \$2,500,000. Cora, gold, silver and lead. Tunnel, i,000 tons; horse.
	W. V. Doyle and others. Union Hill, gold, silver. Shaft, tunnel, open cut; free, refractory; horse (devoping). W. M. Fagan, supt.
64	Gerken & Lynn. Cap. \$50,000. Ontario, Wanda. Tunnel, 400 tons; refractory; hand. John Gerke supt.

# GOLD AND SILVER-(CONTINUED)

	GOEL AND SHEVER COMMAND
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Name: of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 founds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Town and County.  Galena Lawrence	Henry Mayors. Captain Pratt, silver, lead. Tunnel, 365 tons; free.
(Continued.)	R. B. Haves Mining Co. J. Denevon, prest, and mgr.; S. Moll, seev.; P. E. Sparks, treas. Cap. stk
	\$250,000. R. B. Hayes, gold, silver, lead, 2,000 tons; horse,
	Washington Consolidated Gold & Silver Muning Co. John J. Sehlawig, prest, angr. and supt.; William MeLachlin, seey.; J. L. Follett, treas. Cap. stk. \$200,000. Gold, silver. Tunnel, 1,000 tons; refractory, water.
Harney Pennington (P. O. Etta Mine) Ry, Hermosa 274.	Myron Willsie & Co., Rapid City, S. Dak. C. J. Wheeloek, mgr. Wade, silver, copper. Horse. Myron Willsie, supt.
Hayward Pennington Ry, Hermosa 274 (9 miles).	Hayward Group Silver Mining Co., C. J. Patton, prest.; A. C. Walker, seey, and treas.; John Monday mgr, and supt. Cap. stk. §1250,000. London, gold, silver, lead. Shaft, tunnel, 500 tons; refractory, hand.
Hermosa Custer Ry, 274.	J. R. Bobier. North Star, gold, silver, lead. Shaft; hand,
44	Spokane Mining Co. J. N. Wright, prest, and mgr.; M. R. Maxson, seey, and freas, Cap. \$80,000 Spokane, silver, lead. Shaft, 800 tons; hand. J. N. Wright, supt.
Hill City . Pennington Ry, 88.	McCulloch & Stevens. Swan Lode, gold. Slope; free; water. G. W. McCulloch, supt.
Keystone . Pennington (P. O. Etta Mine) Ry. Hermosa 274.	Reed, Franklin & Blair. Keystone Lode, gold, silver. Tunnel, shaft; free, refractory; hand, A. J. Shimons, supt.
Lead Lawrence Ry, 64, 208.	Big Missouri Mining Co., Chicago, Ill., 4 Tribune Bidg. Alvan E. Tyler, prest.; Jahoz B. Stubbs, seey. M. J. Luther, treas.; M. A. Delano, mgr. Cap. stk. \$250,000. Big Missouri. Shaft, 75,000 tons; free steam; 69 stamps. James H. Honey, supt.
***	Collins & O'Leary. Lackawanna, gold, silver. Shaft, open cut, 2,000 tons; refractory; steam. James A Collins, supt.
hs	Custer & Mand Mining Co, Chicago, Ill., Room 14 Tribune Bldg. M. J. Lufher, prest.; M. A. Delano seey, and treas. Cap. stk. \$50,000 (developing).
b4 4+	Florence Gold & Silver Mining Co., beadwood, S. Dak. Charles Waite, prest; A. J. Malterner, seey. B. F. Ankeny, treas.; P. L. Gibbs, mgr. and supt. Florence Group. Shaft, tunnel; refractory steam.
44	Hawk Eye Gold Mining Co., Des Moines, Iowa, 817 Walker St., Geo, Bauseldinch, prest; M. J., Hunter escy; Win, R. Ankeney, treas; David Hunter, ingr. and supt. Cap. 8tk, \$2,500,000. St. James, Willia and 6 others. Shaft and tunnel; free; steam; 40 stamps.
44 44	Lead Placer Mining Co. J. M. Dickson, prest.; J. B. Baker, secy., treas, and supt. Wm. Larimer, treas Placer (developing).
	Welcome Mining Co. Charles Waite, prest, and mgr.; A. J. Malferner, seey, and treas. Welcome, gold silver. Shaft, tunnel; refractory; steam; chlorination process. N. Scheuer, supt.
Perry Lawrence Ry. 64.	Convention Gold Mining Co., Deadwood, S. Dak, J. T. Harrington, prest.; James Frawly, seey.; Henry Frawly, treas.; Daniel Miles, mgr. and supt. Convention. Shaft, tunnel; free; hand.
64	Wilson M. Merritt. Advance, Single Tax, gold, silver and copper. Shaft, tunnel; free, refractory; hand
Rochford Pennington Ry, 88,	Minnesota Consolidated Minling Co., Davenport, Ia. A. Klimball, prest.; F. H. Griggs, seey, and freas.; C. H. Enos, mgr. and supt. Cap. stk. \$399,090. Munnesota and others. Free; water (developing).
Spokane	Buckingham & Miller. Cap. \$10,000. Lucky Friend, gold, silver. Shaft, 200 tons; refractory; hand. John L. Buckingham, supt.
45	Maxson & Patton. Cap. \$10,000. Banker, silver, gold. Shaft, (30 tons; hand. N. Veates, supt.
	W. L. Pike and others. Chedayne, Linus, sliver. Shaft; electricity, W. L. Pike, supt.
	Spokane Mining Co. M. R. Maxon, seey, and treas. Cap. \$100,000. Spokane, silver, gold, lead. Shaft, 300 tons; refractory; horse. F. M. Wall, supt.

# GYPSUM

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY

Rapid City. Ry, 274.

Sturgis ... Ry, 274.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TOSS OF \$2,000 FOUNDS, KIND OF FOWER USED, MILES, ETC., AND NAME OF MINE SUPERINTENDENT.

Pennington Madland Mining & Developing Co. John J. Rochford, prest, and mgr.; Edward M. Reeves, seey., Wilham W. Hinton, freas. Cap. stk, \$5,000,000. Open pit; mill (developing). Samuel Scott, supt.

Meade Black Hills Plaster Co. Henry A. Carpenter, prest.; G. W. Cromwell, seey, and treas. Cap. stk. \$20,000. Open pit, 3,600 fons; steam.

#### MICA

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2400 POUNDES, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.		
TOWN AND COUNTY.	OF TOWER COED, EIC., AND NAME OF MINE SUPERMIENDENT.		
Custer Custer Ry. 88,	Galesburg Mica Mining Co., Galesburg, Ill., 321 E. Main St. A. P. Charles, prest.; C. A. White, seey, and treas.; R. H. Pilcher, mgr. and supt. Cap. Stk. \$150,000. Evelyn. Shaft, tunnel; hand developing)		
	Wm. C. Walsh, Chicago, Ill., 54 and 56 Sherman st. Climax. Shaft, tunnel; horse.		
Pringle Custer (P. O. Hot Spgs.) Ry. Ss.	Consolidated Mica Co. J. B. Diekorr, prest.; J. F. Parks, seey.; Charles G. Fargo, treas.; M. S. Thomas, mgr. and supt. Cap. stk. \$3,000,000. Sun Dog. Shaft; hand.		
Rapid CityPennington Ry, 274.	L. L. Davis. Cap. \$1,000. Newton, gold, mica and tin. Open cut; hand (developing).		
ST	CONE, MARBLE, GRANITE AND ONYX		
LUCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	2,000 Pounds, Kind of Power Used, Stone or Marble Mills, Limeelins and		
TOWN AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.		
Deadwood Lawrenee Ry. 88, 274, 208.	Ball White Sandstone Co. Edward Ball, propr. Cap. \$25,000. Sandstone. Open pit, 1,500 tons; hand.		
Dell Rapids Minnehaha Ry. 141.	Dell Rapids Granife Co. Ritchie Sampson, prest.; W. S. Mitchell, secy, and treas.; John McDonald vprest. Cap. stk. \$50,000. Jasper. Open pit.		
E. Sioux Falls. Minnehaha Ry. 319.	East Sioux Falls Granite Co. G. H. Perry, mgr. Cap. \$200,000. East Sioux Falls, granife, sandstone Open pit, 15,000 tons; steam; mill. James McGrath, supt.		
Rowena Minuehaha Ry, 319.	t Minnehaha Granite Co., Chicago, Ill., 84 La Salle st. L. A. Marshall, prest.; Fred Stafford, seey.; W. I Holton, treas. Cap. stk. \$50,000. Quartzite, granite. Open pit, slope, 15,000 tons; steam. Thoma Vernon, supt.		
	TIN		
LOCATION OF MINE, RAILWATS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Suelters, Etc., and Name of Mine Suffringendent.		
TOWN AND COUNTY	OF TOTAL CORP. CORPURATOR STORY AND PARTIE OF PARTIE OF PARTIES OF		
Bear Gulch Lawrence Ry. Deadwood 88, 274.	Janssey & St. John. George and 5 others. Shaft; horse, hand (developing).		
n	C. Miller. Boston, Commercial Grace, Dakota. Tunnel; shaft (developing).		
44 44	Nigger Hill Tin Mining Co. Charles J. Finch, prest., mgr. and supt.; Henry Schmitz, seey, and treas Cap. stk. \$1,250,000. Nigger Hill. Shaft; hand.		
Custer Custer Ry, 8s,	Dolphin Mining & Milling Co. Col. John Doniphan, prest.; O. D. Moore, seey. Capital stk. \$4,000,000 Dolphin, Tempest. Shaft, tunnel, 1,000 tons; free; horse, hand. W. P. Moore, supt.		
16	Thomas J. Wheeler. Haven, Shaft; hand.		

Etta Mine. Ry. Hermosa 274.

Rapid City Land & Improvement Co., Rapid City, S. Dak. E. B. Byington, prest; R. J. Hill, secy.; R. S. Hall, treas.; Samuel Scott, mgr. Cap. stk. \$6,000,000. Etta, Mårgaret. Shaft, open cut, 30,000 Ions; hand. Lewis Everly, supt. 

Harney City Pennington Black Hills Tin & Metal Co. A. J. Kohler, prest.; Frank O. Fetton, secy.; N. Hunsicker, treas.; H. H. (P. O. Etta Mine) Ry. Francis, mgr. and supt. Cap. stk. \$1,000,000. Harney City. Tunnel, shaft; horse, hand (developing).

Hermosa 274. Hill City

Wheelock & Everly. Olive. Shaft, tunnel; horse. C. J. Wheelock, supt.

Ry.

Pennington Harney Peak Tin Mining & Milling Co., New York City, 44 and 46 Wall st. Samuel Untermyer, prest; Charles D. Deshler, seey.; Lewis May, treas. Cap. stk. \$15,000,000. Shaft; steam. J. S. Childs, supt. Frank Hebert. Tin Queen. Shaft, open pit (developing).

James Jacoby & Co. Rose, Big Mountain, fin, lead, copper (developing). Joseph McClure. Western Bell and 3 others.

Rapid City Land & Improvement Co., Rapid City, S. Dak, E. B. Byington, prest.; R. J. Hill, seey.; H. S. Hall, treas.; Samuel Scott, mgr. Cap. stk. \$6,000,000. First Find. Open cut; hand. Samuel scott, supt.

Spokane

Whitewood Rv. 274.

C. Von Woehrmann & Bartley Bros. Dogtown Group and 9 others. Shaft, tunnel; hand (developing).

Lawrence Charles J. Finch. May Queen and 4 others. Shaft, open cut, 400 tons; hand.

Pennington Everly & Price. Good Luck. Open cut; hand. Milton Everly, supt.

Finch & Gaston. Buckeye. Shaft, tunnel, 1,200 tons; hand. Charles J. Finch, supt.

# TENNESSEE

#### COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Harriman

Sale Creek.

Tracy City Ry, 482,

AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Bon Air Coal Mine White Bon Air Coal & Coke Co. J. M. Overton, prest., treas, and mgr.; J. L. Dilrell, secy. Cap. stk. \$50,000. Bon Ry, 482. Air. Tunnel, 100,000 tons; steam. Wm. Harvie, supt.

Caryville . . Ry. 240. .. Campbell J. C. Collins, Hill st. Cap. \$500. Citizen's. Tunnel, 400 tons; hand,

Anderson Black Diamond Coal Co., Knoxyllle, Tenn. T. H. Heald, prest.; E. F. Wiley, seey, and treas.; J. M. Andrews, mgr. and supt. Cap. stk. \$150,000. Black Diamond, Empire and Shamrock. Slope, 292,000 tous; steam. Coal Creek Rv. 240.

Coal Creek Coal Co., Knoxville, Tenn., 61 W. Church st. E. C. Camp, prest.; D. B. Bean, seey, and treas. Cap. stk. \$200,000. Fraterville, Thistle. Tunnel, 250,000 tons; steam and horse. A. H. Bowling, supt.

Cumberland Phillipsburg Land Co. (local). Noble Phillips, prest, and mgr.; R. W. Shannon, seey.; John J. White, wood 636. treas. Cap. stk. \$40,000. Albany. Open; hand. Crossville Ry. Rockwood 636. Campbell Elk Valley Coal & 4ron Co., Knoxyille, Tenn. Judge M. P. Jornagin, prest.; W. T. Russell, seey, and treas.; C. R. Baird, mgr. and supt. Cap. stk. \$300,000. Tunnel, horse (developing). Elk Valley. Rv. 612, 240.

. . . Rhea J. T. Darwin, Cap. \$7,500. Darwin. Slope and tunnel, 40,000 tons; water.

Evensville Frozen Head

en Head Morgan East Temeessee Mining Co., Harriman, Tenn. J. D. Roberts, prest.; J. Michell, seey.; Fred. Gates, treas.; P. O. Coaffield Fig. Louis E. Bryant, ingr. Cap. sik. \$1,000,000. J. D. Roberts, prest.; J. Michell, seey.; Fred. Gates, treas.; Oliver Springs 787.

Louis E. Bryant, ingr. Cap. sik. \$1,000,000 tors (developing). L. E. Bryant, supt. Roane

ist Tennessee Mining Co. J. D. Roberts, prest., Jos. Michell, seey.; Fred Gates, treas.; L. E. Bryant, \_mgr, and supt. Cap. stk. \$1,000,000. Byrd. Tunnel and drift, 20,000 tons, steam, 6 coke ovens, 3,500 tons. East Tennessee Mining Co. Hartrauft Claiborne Ry, Middlesboro, Ky., Rehance Coal & Coke Co. E. A. Sanner, prest.; Philip Swab, seey, and treas. Cap. 8tk. \$15,000. Reliance. 50,000 tons; horse. John Gent, supt.

Ry. Midd 371, 408. Knoxyllie Knox Black Diamond Coal Co. T. H. Heald, prest.; E. F. Wiley, seey.; W. F. Searle, treas.; J. M. Andrews, mgr. and supt. Cap. 8(k. \$150,000. Black Diamond. Slope, 300,000 tons; steam. Ry. 240, 372, 371, 420.

Marion B. F. Patton, Cap. \$10,000. Needmore. Tunnel, 10,000 tens; hand, (P.O. South Pittsburg)

Ry. 408. Newcomb Campbell Standard Coal & Coke Co. J. L. Breese, prest.; Russell A. Clapp, seey., treas. and mgr. Cap. 8tk. \$500,000. Tunnels, 85,000 tons., horse. J. C. Brooks, supt. Ry. 240,

Phillipsburg Land Co. docab, Crossville, Tenn. Noble Phillips, prest, and mgr., R. W. Shannon, seey.; John J. White, treas. Cap. stk. \$40,000. Rockwood. Open; hand. Rockwood Rv. 612, 636.

Hamilton Sale Creek Coal & Coke Co., Chattanooga, Tenn., cor. Ninth and Market sts. Sol. Simpson, prest.; Win. Grilliths, seey.; A. Simpson, treas.; D. R. Grilliths, ugr. Cap. stk. \$50,000. Sale Creek. Tunnel, 30,000 tons; borse; washer, 35 coke overs. W. R. Lloyd, sipt.

Hamilton Soddy Coal, Iron & Railway Co., Chattanooga, Tenn., cor. W. Ninth and Broad sts. M. H. Clift, prest, n 6i2. treas, and ngr. Cap. 8tk. \$90,000. Soddy. Tunnel, (10,00) tons; horse and steam; washer, 150 coke overs. A. Lloyd, sipt. Ry. Rathburn 612.

South Pittsburg Marion Houston, McDaniel & Co. Cap. \$2,000. Old Battle Creek. Tunnel, hand. P. T. Faller, supt. Rv. 482, 746,

> R. M. Payne, Cap. \$5,000. Battle Creek. Tunnel and drift, 5,000 tons; hand. James Turner, supt. Grundy Tennessee Coal, Iron & Railroad Co., Nashville, Tenn. T. C. Platt, prest.; Jas. Bowron, secy, and treas.;
> A. M. Shook, third v.-prest, and ngr. 5 drifts, 397,736 tons; steam and horse; washer, 530 coke ovens, 43,788 tons. E. O. Nathurst, supt.

Marion Tennessee Coal, Iron & Railroad Co., Nashville, Tenn. T. C. Platt, prest., Jas. Bowron, seey, at treas.; A. M. Shook, third v.-prest, and mgr. 2 drifts, 214,424 tons, horse; 130 coke ovens, 43,788 tons. Whitwell Ry. 482.

Bryson Mt. Coal & Coke Co., Umberland av. T. Cockill, prest, and treas.; E. Cockill, seey, and mgr. Cap. stk. \$50,000. Bryson Mountain. Timnel, 90,000 tons, steam and horse. J. W. Cockill, supt. (P.O. and Ry. Middles boro, Ky.) 371, 400.

Fork Ridge Coal Co. O. W. Davis jr., prest, and treas.; John Sanderson, seey. Cap. stk. \$100,000. Fork Ridge. Tunnel, 60,000 tons; steam. J. A. Jardine, supt.

Mango Mt, Coal & Coke Co. John Ralston, prest; O. W. Davis jr., v.-prest, and seey.; C. M. Woodbury, trens. Cap. 8th, 843(900). Margo Nos. 1 and 2. Tunnel, 150(900) (ons; steam; washer, 240 coke ovens, 75(90) (ons. R. L. Ralston, supt.).

#### COPPER

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORF, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Polk Pittsburg & Tennessee Copper Co., Pittsburg, Pa., 3222 Penn av. Hugh Ferguson, prest., Duncan Ferguson, seey.; S. J. Wainright jr., treas.; Carl Henrich, mgr. and supt. Old Tennessee, copper. Shafts; steam. Ducktown

#### FIRE CLAY

	OR BAN TS, WATE	MINE K, R ROUTES, POINT.
Town	AND	COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Cleveland . . . . . . Bradley Cleveland Fire Brick Co. J. H. Sanborn, prest, and treas.; J. C. Noel, seey. and mgr. Cap. stk. \$50,000. Ry. 240. Open pit, 6,000 tons; steam.

# GOLD AND SILVER

Loca	TION OF	MINE,	
RAILWAYS, WATER ROUTES			
AND SHIPPING POINT.			
Town	AND	COUNTY.	

NAME OF COMFANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Knoxville. Ry. 240, 372, 371, 420.

Knox | East Tennessee & North Carolina Mining Co., 64 Gay st. Samuel Johnson, prest; Charles S. Ashton, seey; Win, M. Johnson, treas; Levi Levengood, mgr. Cap, stk. \$37,000. Trotter and Indian, gold, where the county wiver, iron, lead, copper, Shaft and tunnel; water and steam developing). (Mine in Sevier county)

#### IRON

11021		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUTIN TONS OF 2,000 FOUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUFERINTENDENT.	
Evensville Rhea Ry. 612.	W. C. Gosset. Cap. \$500. Payne, red fossil. Open pit, 5,000 tons; hand; furnace.	
Goodrich Hickman Ry. 482.	Southern Iron Co., Nashville, Tenn., Union st. A. M. Shook, prest.; W. E. McNeilly, seey, and treas.; Percy Warner, mgr. Cap., stk. \$3,000,000, Johnson and McNeilly, black hematite. Open pit, 250 tons; steam; furnace, H. E. Williams, supt.	
Harriman Roane Ry. 240, 612, 746.	East Tennessee Mining Co. J. D. Roberts, prest.; Joseph Michell, secy.; Fred Gates, treas.; L. E. Bryant, mgr. and supt. Cap. stk. \$3,000,000. Waldeen Ridge, hematile. Drift, 12,000 tons; hand.	
Inman Marion Ry, 482.	Tennessee Coal, Iron & Railroad Co., Nashville Tenn. T. C. Platt, prest.; James Bowron, secy, and treas.; A. M. Shook, third vprest, and mgr. Red fossiliferous. 3 slopes, 117,160 tons; steam. J. Hawkins, supt.	
LouiseMontgomery Ry. 408.	Gracey-Woodward Iron Co., Clarksville, Tenn. W. H. Woodward, prest.; H. G. Woodward, secy., treas, mgr. and supt. Cap. stk, \$68,000. Louise, brown hematife. Timnel, open pit, 100,000 tons; steam and laind; furnace, 45,000 tons.	
Mannie Wayne Ry. 482.	The Southern Iron Co., Nashville, TennA. M. Shook, prest.; J. A. Cooper, seey, and treas.; P. Warner, mgr. Cap. stk, 83,000,000. Mannie, brown hematite. Open pit, 69,000 tons; steam; furnace. John W. Defor, supt.	
NapierLewis Ry, 408.	Napier Iron Co. E. C. Lewis, prest, and mgr.; E. L. Ware, secy, and treas. Cap. stk. \$300,000. Napier, brown hematite. Open pit; steam; furnace, 18,000 tons.	
NewburgLewis Ry, Napier 408.	Napier Iron Works Co., Nashville, Tenn. E. C. Lewis, prest, and mgr.; J. H. Eakin, seey, and treas. Cap. stk. \$3,000,000. Open pits; steam, hand; furnace.	
Pinkney Lawrence Ry. 408.	Smith & Sharpe Mining Co., Dayton, Obio. W. W. Smith, prest.; Thomas Sharpe, seey, and trens.; John Fagan, mgr. and supt. Cap. sik, \$25,000. Finkney, red and brown hemafite. Open pit, 22,500 tons; steam; turnace, 13,500 tons.	
Welker Mines Roane Ry, Kingston 746.	East Tennessee Mining Co., Harriman, Tenn. J. D. Roberts, prest.; Jos. Michell, secy.; Fred Gates, treas.; L. E. Bryant, mgr. and supt. Cap. stk. \$1,000,000. Welker, hematite. Open pit, 28,000 fons; hand and horse.	

	LEAD AND	ZINC
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY	NAME OF MINE, KIND OF ORE, KIND OF	OF PRINCIPAL OFFICE, NAMES OF OFFICELS, CAPITAL STOCK, MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND ETC., AND NAME OF MINE SUPERINTENDENT.
Blue Springs Bradley (P.O. Blue Springs Sta- tion) Ry. 240.	Blue Springs Mining Co., Chattanooga, Tenn., seey, and treas. Cap. stk. \$50,000. Blue S nace. Paul Gass, supt.	, 232 Richardson Block. S. W. Divine, prest.; W. H. Bogle Springs, lead and zinc. Shaft, tunnel, 400 tons; steam; fu
Mossy Creek Jefferson Ry, 240,	White Pine Zinc Co., Louisville, Ky., 33 Kenyo and treas.; Jas. K. Zollinger, mgr. Cap. s and shaft: steam and hand. Frank H. Br	on Bldg. Wm. L. Breyfogle, prest.; B. Whitney Herr, see stk. \$50,000. Sulphurets and carbonate of zinc. Open pit eyfogle, sunt.

White Pine Ry. 240. Jefferson White Pine Zinc Co., Lonisville, Ky., 33 Kenyon Bidg. Wm. L. Breyfogle, prest.; B. Whitney Herr, seey, and treas.; Jas. K. Zollinger, ngr. Cap. sti, \$3,000. Sulphurets and carbonate of zinc. Shaft and open pits: steam and band. Frank H. Breyfogle, supt.

# SLATE

LOCATION OF QUARRY,
RAILWAYS, WATER ROCTES
AND SHIPPING POINT.
FOWN AND COUNTY.

LOCATION OF MINE

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IS TONS OF 2.000 FOUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINSTENDEN.

NAME OF COMPANY OF INDIVIDUAL LOCATION OF PRINCIPAL OFFICE NAMES OF OFFICERS, CAPITAL STOCK

Binff City . Ry. 24. Sullivan The James Slate & Mining Co. W. W. James, prest.; John R. Cunningham, seey.; D. S. Hearon, treas. Cap. 8tk, \$50,000. Slate and marble. Steam (developing).

# STONE, MARBLE, GRANITE AND ONYX

OR QUARRY,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF MINE OF QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USEO, STONE OR MARBLE MILLS, LIMEBILINS AND
	CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	VII. 100 (100 (100 (100 (100 (100 (100 (100
Ry, Clinton 240.	Tennessee Onyx Co. Z. T. Allan, prest., A. H. Jacobs, vprest, and secy.; S. H. Sievens, Ireas.; M. A. Williams, mgr. Tennessee, onyx. Open pit (developing).
Arthur Claiborne Ry, 371.	Hoffman & Malone, Middlesboro, Ky. R. F. Hoffman, prest, and secy.; Thomas Malone, treas, and mgr Cap, \$2,000. Arthur, limestone, 42,000 tons; horse and steam.
Caswells Knox Ry, 240.	Tennessee Producers' Marble Co., Knoxyille, Tenn., 31 Deaderick Block, W. H. Evans, prest.; J. J. Craig, vprest.; John J. Craig jr., treas, and mgr. Cap. 8tk, \$300,000. Caswell, marble. Open pit, 3,000 tons; steam, horse and hand.
Chattanooga,Hamilton Ry, 170, 126, 127, 280, 240, 801.	John Troutt, 863 Pine 84. Cap. \$15,000. Stone Fort, limestone. Open pit, 50,000 tons; steam. P. J. Whitman, supt.
Cloyd's Creek Blount Ry, McGee 420.	Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Denderlek Block. W. H. Evans, prest.; J. J. Crabg, vprest.; John J. Crabg jr., treas, and mgr. Cap. stk. \$300,000. Cloyd's Creek, marble. Open pit, 3,000 tons; blorse, steam and hand.
Concord Knox Ry, 240.	Concord Quarry Co., Knoxville, Tenn. J. E. Harl, prest.; T. W. Keller, seey, and treas. Cap. stk. \$20,000. Marble.
46 15	Tennessee Producers' Marble Co., Knovellle, Tenn., 31 Deaderick Block, W. H. Evans, prest. J. J. Craig, vprest.; John J. Craig Jr., treas, and mgr. Cap. stk. 8300,000. Concord, marble. Open pit, 3300 tons; steam, horse and band.
Ebenezer Knox Ry, 240.	Tennessee Producers' Marble Co., Knoxville, Tenn., 31 Deaderlek Block. W. H. Evans, presk; J. J. Craig, vpresk. John J. Craig jr., trens. and ngr. Cap. stk. \$300,000. Ebenezer, marble. Open pit, 3,000 tons, steam, horse and hand.
Friendsville Blount Ry, 420.	Tennessee Producers' Marble Co., Knoxyllle, Tenn., 31 Deaderick Block, W. H. Evans, prest.; J. J. Crag, vprest.; John J. Craig jr., treas, and mgr. Cap. stk. \$500,000. Friendsyllle, marble. Open plf, 3,000 lons, steam, horse and hand.
Graysylle Hamilton P. O. and Ry. Chatta- nooga 426, 427, 470, 240, 280, 801.	John Troutt, Chattanooga, Tenn., 80 Pine 8t. Cap. \$15,000. Graysville, brown sandstone. Open pit: 5,000 tons; steam. P. J. Whitman, Supt.
Knoxville Knox Ry. 240, 371, 372, 420.	W. H. Evans & Son, Baltimore, Md. Cap. stk. \$500,000. Marble: Open pits, 75,000 tons; steam; mill. J. E. Willard, supt.
66 19	Gray Knox Marble Co. Marble, 8,000 tons.
	Phoenix Marble Co. R. R. Swepson, prest. John P. Beach, seey., freas, and mgr. Cap. stk. \$30,000. Beach, marble. Open pit, 1,500 tons, steam, horse and hand; mills. Jas. B. Lyle, supt.
**	J. Edward Ross, Cap. \$20,000. Ed. Ross, pink and gray marble. Open pit, 2,600 tons; steam. Tom Burnett, supt.
18	Tennessee Producers' Marble Co. W. H. Evans, prest.; J. J. Craig, v. prest.; John J. Craig jr., treas, and mgr. Cap. stk. \$00,000. Knoxylle, marble. Open pit, 3,000 tons; steam, horse and hand.
Ooltewah James Ry, 240.	3,000 tons.
Ry. 240.	Rosebud Marble Co., Knoxville, Tenn. J. E. Hart, prest.; T. W. Keller, seey, and treas.; S. C. Burgess, mgr. Cap. stk. \$15,000. Rosebud, marble. Steam.
Powder Springs, Grainger (P. O. Ambro) Ry, 371.	Columbia Marble Co., Columbus, Olio, 9.8. High st. Dr. L. W. Sherwood, prest.; Hon. Phillip H. Bruck, seey.; R. K. Bickley, treas.; Col. D. D. Nicholas, mgr. Cap. stk. \$10,000. Columbian, marble. Open pit, 5,000 tons; steam. John Carver, supt.
Rogersville, "Hawkins Ry. 240.	James Cooper, Cap. \$25,000. Gem, marble. Slope and open pit, 75,000 tons; horse and hand. John Carver, supt.
Ab Ab	J. L. Leroy. Cave Ridge, marble. Hand.
44	D. C. McKay. Cap. \$50,000. McKay, marble. Open pit, 1,000 tons, steam; mill. John Carver, supt.
	D. E. Dennedy, Nashville, Tenn., cor. Mulberry and Vine sts. Sewance, sandstone. Mill.

SEE ALSO SUPPLEMENTARY LIST

LOCATION OF MINE,

LOCATION OF MINE,

# TEXAS

# COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Coal Breakers, Washers, Coke Ovens, and Name of Mine Sufferintendent.
TOWN AND COUNTY.	
Decatur Wise Ry, 776.	Wise County Coal Co. H. H. Halsell, prest. and mgr.; Will Rush, secy. and treas. Wise. Shaft (developing).
Lytle Atascosa Ry. 326.	Carr Coal Co., Sao Antonio, Tex., cor. Medina and Monterey sts. J. S. Carr, mgr. Lytle. Slope, 7,000 tons; steam. Doming Buneva, supt.
Minera	Santo Tomas Coal Co., Laredo, Tex. A. C. Hunt, prest.; Dr. A. W. Wilcox, secy. and treas. Cap. 8tk. \$75,000. Santo Tomas. Slope, 14,400 tons; horse. D. D. Davis, supt.
Rock CreekParker Ry, 793.	Texas Coal & Fuel Co., Weatherford, Tex. L. M. Fonts, prest, and mgr.; E. R. Standish, seey, and treas. Cap. stk. \$250,000. Rock Creek. Shaft, 15,000 tons; steam. J. O. Fonts, supt.
Rockdale	Rockdale Mining & Manufacturing Co., P. O. Box 25. L. Isaacs, prest.; W. B. Woody, seey, and mgr.; J. L. Lockett, treas. Cap. stk. \$60,000. Shaft, open pit; steam (developing). J. A. Touchstone, supt.
Sierra BlancaEl Paso Ry. 756, 692.	R. C. Crawford. Fannie M. Shaft.
StrawnPalo Pinto Ry, 756.	Adair, Coal Mining Co., Fort Worth, Tex. J. B. Adair, prest, and mgr.; R. B. Adair, seey, and treas. Cap. stk. \$250,000. Shaft; steam (developing).

# COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANT OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Henrietta Clay	Lone Star Copper Co. W. A. Dennis, prest.; John McNeish, seey.; James M. Steere, treas.; Henry J. Brennou, mgr., Cap. stk. 8375,000. Carbonate, oxide. Tunnel and shaft. 8, E. Ford, supt.

# GOLD AND SILVER

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

	AND SHIPPING POINT.  AND COUNTY.	Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Founds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
Cam	p Schryver El Paso P. O. and Ry. Alla- moore 756.	Hazel Mining Co., San Antonio, Tex. Hazel, silver and copper. Shaft, 4,500 tons: refractory; steam. H. J. Clifford, nigr. and supt.
	Ry, Brownwood 26, 268.	W. F. Elliott, Elliott, gold, silver. Shaft; free.
	ra Blanca . El Paso Ry. 756, 692.	R. C. Crawford. Caledonia, gold and silver. Tunnel; refractory.

# IRON

LOCATION OF MINE, RAILWATS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,00 Found, Kind of Power Usep, Blast Furnaces, Erc., and Name of Mine Sudenityhordhis.
TOWN AND COUNTY.	
Jefferson Marion Ry. 756, 459.	Lone Star Iron Co. John H. Kruse, prest, and mgr.; Edward Affield, seey.; Thomas T. Nelson, treas- cap, 8tk, \$1,080,000. Brown hematite, fossiliferous, carbonate. Open plf, 36,000 tons; hand; furnace, capacity 18,000 tons. Thomas Traverse, supt.
Llano Llano . Ry. Burnet 37.	Wakefield Iron & Coal Land Improvement Co., Milwaukee, Wis., 154 Second st. Ceylon E. Lyman, prest.; Vernon T. Wakefield, seec., George M. Wakefield, treas.; James A. Wood, mgr. and supt. Cap. stk. 83,000,000. Bader, naggetic, pyrophosphite, manganese. Shaft; steam developing).
Queen City Cass Ry, 756.	Queen City Iron Co. John I. Halley, prest; J. B. H. Janeway, seey, and mgr.; J. J. Robertson, treas- Cap, stk. \$400,000. Red and brown hematite. Open pit: furnace, 25,000 tons.

#### SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Town COUNTY NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Colorado .

.....Mitchell Lone Star Sait Co., Dallas, Tex. Byron Parsons, prest.: Fredk, R. Blount, seey, and treas. Cap. stk. \$200,000. Lone Star, Crescent, common, fine, table, solar. Well, \$20,000 brls.; steam; evaporation, John Miller and A. Wilderspin, supts.

#### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine or Quarry, Kind of Stone, Kind of Mine or Quarry, Annual Output in Tons of 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Fredricksburg. Gillespie Frank Teich, San Antonio, Tex., cor. Arkansas and Mill sts. Cap. 830,000. Bear Mountain, granite. Open By. 37.

Gordon . Ry. 756.

Palo Pinto W. M. Gibbs. Sandstone. Open pit, 19,500 tons; horse, hand.

Granite Mountain, Burnet Frank Teich, San Antonio, Tex., cor. Arkansas and Mill sts. Cap. 830,000. Moor, granite. Open pit, Ry, 37. 20,000 tons; horse,

Texas Capitol Granite Co., W. H. Westfall, prest.; N. L. Norton, secy. and treas.; George W. Lacey, mgr. Cap. stk. \$1,000,000. Granite Mountain, granite. Open pit, steam, horse, hand; polishing mill. . Coleman Golden Stone Co. Cap. stk. \$10,000. Golden Stone, limestone. Slope, hand; mill, kiln, 30,000 brls. James T. Donahoo, supt.

Rv. 26.

Weatherford.

atherford.......Parker W. J. Franklin. Cohen, limestone. Open pit; horse, hand. Ry, 26, 756, 793. J. H. Harberger, Cap. \$5,000. J. H. Harberger's, lanestone. Slope, 500,000 tons; hand; kiln, 50,000 tons.

W. A. Hutson. Rock Creek, Sandstone, Open pit, 6,000 tons.

SEE ALSO SUPPLEMENTARY LIST

# UTAH

# ASPHALTUM

Lo	CATION OF	MINE.
RAILW	AYS, WATE	R ROUTES
AND	SHIPPING	POINT.
Town	AND	COUNTY.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED. MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Clear Creek ...... Utah (P. O. Tucker) Ry. 215.

.Utah Wasatch Asphaltum Co., Salt Lake City, Utah, 71 Culmer Block. G. F. Culmer, prest.; H. L. A. Culmer, secy, and treas. Wasatch, rock asphaltum. Tunnels, 5,000 tons; steam, horse and hand; mill, 9,000 tons. St. V. Le Sieur, supt.

Duchesne ..... Uintah. (P. O. Fort Duchesne) Ry. Price 215.

Gilson Asphaltum Co., St. Louis, Mo., Odd Fellows' Bldg. C. O. Baxter, prest.; H. E. Naffz, seey. and treas.; B. Seaboldt, mgr. Asphaltum. Shaft, 1,500 tons; horse. Thomas Taylor, supt.

Pariette. (Not a P. O.) Ry. Price 215. Sait Lake Gilsonite Co., Sait Lake City, Utah, 71 Culmer Block, Geo. F. Culmer, prest.; H. L. A. Culmer, seey, and treas. Cap. stk. \$150,000. Sait Lake Gilsonite Co.'s Group. Shaft, tunnel, slope and open pit, 2000 tons; horse and hand. St. V. Le Sleur, supt.

# COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY Coalville Ry. 776.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED. COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT.

Castle Gate ... Emery Ry, 239. Pleasant Valley Coal Co., Salt Lake City, Utah. C. W. Drake, secy. and treas.; D. C. Dodge, mgr. Cap. Silt. 82,500,000. Castle Gate. Tunnel, 125,000 tons; electricity; breaker, 80 coke ovens, 25,000 tons. W. G. Sharp, supt.

... Summit Chalk Creek Coal Mining Co., Salt Lake City, Utah, 225 W. South Temple st. Geo. C. Kidder, prest.; J. D. Bubee, seey.; H. P. Mason, (reas.; J. H. Clark, mgr. Cap. stk. \$50,000. Chalk Creek. Shafts, steam and horse, Isaac Trega, supt. Home Coal Co., Salt Lake City, Utah. 22 E. First S. R. C. Chambers, prest.; F. A. Mitchell, seey., mgr. and supt. Edward Kimball, treas. Cap. stk. \$250,000. Wasatch. Shaft and tunnel, 37,412 fons; steam.

Grass Creek Jn. . Summit (P.O.Coalville) Ry.776, James Robinson & Co. (lessees), Coalville, Utah. James Robinson, mgr. Old Church. Tunnel; horse, Pleasant Valley Coal Co., Salt Lake City, Utah. C. W. Drake, seey, and treas.; D. C. Dodge, mgr. Cap. stk. \$2,500,000. Winter Quarters. Tannel, 125,000 tons; electricity; breaker. W. G. Sharp, supt.

Union Pacific Coal Co., Omaha, Neb. F. D. Brown, treas.; G. W. Megeath, gen. supt. Pleasant Valley. Tunnel, 90,000 tons; horse. W. G. Sharp, supt.

#### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY.

Scofield . . . . Emery Ry. 215.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

St. George . Washi: Ry. Milford, 776.

. Washington Dixie Mining & Smelting Co. John Pynni, prest.; Seth A. Pynni, seey.; Robert C. Land, mgr. Cap. stk. st25,000. Anex. Morning Star and others. Tunnel, 2,000 tons. S. R. Calloway, snot.

#### GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

COUNTY.

Town

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Alpine City Ry. American Fork 215, 776.

Utah Nettie Mining Co. J. G. Wilkin, prest.; W. Healy, seey.; H. Healy, treas. Cap. stk. \$20,000. Nettie, Fork—silver and lead. Shaft, 20 tons; refractory; hand. W. T. Brown, supt.

Ry. 215.

J. G. Wilkin, Hiram & William Healy. Jeannette, lead and silver. Slope; hand (developing).

Salt Lake Emma Mining Co., Ltd., London, Eng., 16 George st., Mansion House, E. C. F. W. Snell, prest.; R. K. Hobbs, seey.; H. C. Woodron, mgr. Cep., srk, 8925,000. Emma, silver, lead. Tunnel and shaft, 5,000 tons; steam and compressed air. W. H. Tamblyn, supt.

Montezuma Silver Mining Co., Detroit, Mich., 210 Larned st. W. John Belknap, prest.: David R. Pierce, seey, and treas. Cap. stk. 8500,000. Montezuma, Savage, Illawatha, Last Chance, silver and lead. Timinels and shafts, \$50 tons; free, hand. Thos. W. Buzzo, supt. C. M. Siekles & James R. Tainsh. Kenosha, gold, silver and lead. Tunnel, shaft and slope, 5,000 tons; refractory; horse and haod. Jas. R. Tainsh, supt.

American Fork Ry. 215, 776.

Utah E. H. Baley & Co. Cap. \$7,000. Lone Pine, gold, silver and lead. Tunnel and slope: free; hand. E.

J. Preston, J. Chipman & L. Kulkowski. Emma, silver and lead. Shaft, 25 tons; refractory; horse. L. Kulkowski, supt.

GOLD AND SILVER-(CONTINUED)		
LOCATION OF MIN RAILWAYS, WATER RO AND SHIPPING POI TOWN AND CO	OUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kind of Mine, Annual Ottfut in Tors of 200 Pouxds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.
TOWN AND CC	JUNII.	
American Fork (Continued.)	. Utah	Treasure Consolidated Mining Co. J. Chipman, prest.; W. H. Chipman, seey, and treas.; John Chadwick, mgr. and supt. Cap. stk. \$1,000,000. Treasure, gold, silver and lead. Tunnel and slopes, 5 tons; refractory; hand.
BinghamCanyon Sal Ry, 215.	tLake	J. B. Cornwell. Cap. \$10,000. Unlimited, Logan, Crown, Silver Shield and others, gold and silver. Shaft, tunnel, slope and open pit, 500 tons; hand.
**	44	Highland Mining Co., Salt Lake City, Utah, 231 S. Main St. Frank Hoffman, mgr. Highland and others, gold, silver and lead. Shaft, 10,000 tons; steam.
(4 miles).	**	James Judd sr. Agnostic, gold and silver. Tunnel; free; hand (developing). William E. Judd, supt.
(12 miles .	**	The Lexington Mining Co., Salt Lake City, Utah, Rooms 19 and 20 Commerce Ridg.; Paris, France, 24 Rue- de Feletier, Eugene Ranevey, prest.; G. Lavaguino, mgr. and supt. Cap. 8tk. \$2,000,000. Old Tele- graph, gold, silver and lead. Tunnel and shaft, 5,000 tons; free; water and steam; 5 stamps.
4.6	**	Nast Mining & Milling Co., Salt Lake City, Utah. Frank Knox, prest.; John M. Zane, seey.; J. A. Early, treas.; Daniel Eyer, mgr. and supt. Cap. stk. \$200,000. Nast and others, gold, silver and lead. Tunnel, 1,000 tons; refractory; hand.
6.6	44	Niagara Mining & Smelting Co., Sall Lake City, Utah, 188 Main st. Gilbert E. Polen, prest.; C. Howard Schermerhorn, seey, and treas.; N. Treweck, mgr. Cap. stk. \$10,000,000. Magara Group, gold, silver and lead. Shafts, funnels; refractory; steam; mill. John Treweck, supt.
P.		Old Jordan & Galena Mining Co., Saft Lake City, Utah, P. O. Box 1027; L. E. Holden, prest, and mgr.; C. E. Allen, seey; W. S. Met'ormick, trens. Cap. 8th, \$2,000,000, Jordan, Galena, Mary Ann and others, gold, silver, lead and Iron. Shaft and tunnel, 60,000 tons; refractory; steam; 60 stamp mills. A. F. Holden, supt.
(3 miles).	4+	Orphan Boy Mining Co., San Francisco, Cal., Chronicle Bldg. Col, Isaac Trumbo, prest, and mgr. Orphan Boy, Lydla Emo, Walk Off, Keystonec, Remnant and Starless, silver and lead. Tunnel and shaft, 1,550 lons; refractory. Geo. E. Lee, supt.
	4.	Petro Mining Co., Salt Lake (city, Utah, 65 Commercial Bldg. G. R. Bothwell, prest.; S. B. Milner, seey., treas, and mg., Cap., sik, \$1,000,000. Petro, Democrat and Addella, sliver and lead. Shafts and tunnels, 3,300 tons; refractory; steam. Andrew Johnson, sppt.
ι,	**	Sampson Mining Co., Saft Lake City, Utah, 34 Gladstone Bidg. A. E. Hyde, prest; J. Schenek, seey, and supt; George Arthur like, treas, and ngr. Cap. 8tk, 550,000. Sampson, gold, sliver and lead. Shaft, 4,000 tons; refractory; steam.
	-•	Tarngren Mining Co., Salt Lake City, Utah, 56 W. Second S. St. Daniel Turngren, prest.; J. J. Rogers, seey.; J. W. Sullivan, treas. Cap. stk. \$2500,000. Turngren, gold, silver and lead. Tunnel; free developing.
		Yampa Extension Mining Co., Salt Lake City, Utah, Hooper Block. Issae Jennings, prest, and mgr. Vampa Extension, Rattlesnake, Keepapi, chinin, Byrel and Etalka, gold, silver and lead. Tunnels and shafts, 3,000 fons; free; water. Geo. E. Lee, supt.
11	**	Vork Mining Co., Saft Lake City, Utah. Rooms 49, and 50 Wasatch, Block. John A. Groesbeck, prest.; W. B. Andrew, seey, and treas.; D. H. McAllister, vprest., mgr. and supt. Cap.stk. \$1,000,000. Vork, gold, sliver and lead. Slope, 7,000 fons; steam.
Diamond P. O. and Ry. City 776.	Juab Silver	Butte Mining Co., Eureka, Utah. ( , W. Clark, prest.; B. B. Clark, seey, and treas.; Albert Leigh, mgr. and supt. Cap. 8tk, \$10,000. Diamond, gold and silver. Tunnel and shaft, 1,50) tons; free; hand. Albert Leigh, supt.
Eureka Ry. 215, 776.	Juab	C. W. Bennett Mining Co., Salt Lake City, Utah, P. O. Box 180. Cap. \$250,000. C. W. B. Group, gold, silver and lead. Shaft and funnel, hand and steam (developing). C. S. Davls, supt.
"	4.6	Bullion-Beck & Champion Mining Co., Salt Lake t ity, Utah. Moses Thatcher, prest.; W. J. Beattie sery.; Wm. B. Preston, treas.; A. E. Hyde, mgr. Cap. stk. \$1,000,000. Bullion-Beck and Champion, gold, silver and lead. Shaft, 92,000 tons; free; steam. F. V. Taylor, supt.
	• 6	Centennial-Enreka Mming Co., Salt Lake City, I (ab., Opera House Block, J. F. Woodman, prest.; W. W. Chisholm, seey, treas, and mgr. Cap. sik, Si, 200,009. Centennial-Eureka, Blue Rock, Kendall, Alta and others, gold, silver and copper. Shaft, 72,000 (ons; free and refractory; steam. J. D. Kendall, sppt.
	**	Balthazar Christensen. Mahogany, Marion and James G. Blaine, gold, silver and lead. Tunnels and shaft; refractory; hand.
		Godiya Mining Co., Salt Lake City, Utab. John Q. Packard, prest., John McChrystal, seey., mgr. and supt., Robert Harkness, treas. Cap. stk. \$10,000. Godiya, gold, sliver and lead. Tunnel, 500 tons. tree: hand.
(3 miles (	19	Gold Blossom Mining Co., American Fork, Utah. John Nicholes, prest.; C. W. Kelly, seey, and mgr.; George Nicholes, treas. Cap. 8tk. 81,000,000. Gold Blossom, gold. Shaft, retractory; horse.
	+ 4	John & John H. McChrystal, Eureka, gold, silver and lead. Shaft and tunnel; free; steam. John McChrystal, supt.
(3 miles).		North Eureka Mining Co. T. P. Murray, prest.; C. L. Peebles, seey.; Pat. Donnelly, treas., Fugo Bepuzla, mgr. and supt. Cap. stk. \$90,000. North Eureka and others, gold, silver and lead. Shaft; horse.

The Tetro Mining Co. of Thitle, Salt Lake City, Utah. Noah W. McChrystal, prest.; Wm. R. Wallace, seey.; Harry T. Duke, treas.; Gus. Tetro, mgr. and supt. Cap. stk. 880,000. Gold. Tunnel; hand developing). Fish Springs . . . . Juab (Emma Mining Co., American Fork, Utah). Emma, silver and lead. Slope and tunnel, 20 tons, refractory; (P. O., Deseret Ry., Oasls 7f6 (65 mles).

Pasadena Mining Co., Salt Lake City, Utah, 48 W. Second st. Alex. McKiernan, prest, and treas.; A. F. Daying, seey; A. S. Johnson, mgr, and Supt. Cap. 8tk. \$1,000,000. Pasadena, gold and silver. Tunnel; free; hand and horse. Richmond & Anacouda Consolidated Mining Co., Salt Lake City, Utah. S. W. Morrison, prest.; John H. McChrystal, v.-prest.; J. J. Stewart, treas.; W. C. B. Alben, seey.; F. E. Bostwick, nigr. and supt. cap. sik. 850,000. Damilicare, gold and silver. Shaft and tunnel, 2000 tons, free, hose. LOCATION OF MINE,

# GOLD AND SHAVER-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND
TOWN AND COUNTY.	OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Frisco Beaver Ry, 776.	Blue Jay Consolidated Mining Co., Salt Lake City, Utah, 46 Central Block. W. H. Chamberlin, prest.; John T. Lynch, seey, and frens; Jack Bofton, ingr. Cap. sfk. \$2,000,000. Trojan, Blue Jay and Mona, silver and lead. Free; horse and hand (developing). O. D. Hendrickson, supt.
, A.S.	silver and lead. Free; horse and hand (developing). O. D. Hendrickson, supt.  Cachis Mining Co., Paris, France, 20 Rue Taitbout. Sallandronze de Eamornaix, prest.; Harry T. Duke, seey; Joseph Luce, mgr. and supt. Cap. stk. \$5,000,000. Voorhees, silver and lead. Shaft and tunnel; retractory; hand (developing).
	retractory; hand (developing).  Horn Silver Mining Co. A. C. Washington, prest.; A. I. Harrison, seey. and treas.; P. T. Farnsworth, mgr. Cap. stk. 810,000,009. Horn, silver and lead. Shaft, 26,000 tons; refractory; steam. J. Osborne,
Iron City Iron	supt.
P. O. & Ry. Milford 776.	Bair Mining Co., Salt Lake City, Utah, 79 Main st. J. M. Blair, prest, and mgr.; R. S. Campbell, vprest.; J. T. Hanmond, seey.; Geo. E. Blair, treas. Cap. stk. S600,000. Flower of West, Pintiana, Bair, Trade Dollar and others, silver. Shaft and tunnel, 1,100 tons; free; horse. Brigham Larson, supt.
Joseph Sevier Ry, Salina, 215 (50 m.).	Bald Monntain Mining Co., Castle Gate, Utah. H. B. Asadoorian, prest.; J. R. Sharp, seey.; B. F. Caffey, treas.; Jas. L. Smith, mgr. Cap. stk. 8500,000. Annie Laurie, gold and silver. Timnel, free; electricity (developing). Win, Dickson, supt.
Ry. Milford 776.	Scott & Baalman. Barcelona, gold, silver and copper. Shaft; refractory; horse (developing).
La Plata Cache Ry, Ogden 215, 776.	Ogden-La Plata Mining & Milling Co. Frank J. Cannon, prest.; A. A. Wenger, seey.; J. M. Langsdorf, treas.; J. M. Harris, mgr. and supt. Cap. stk. \$1,000,000. Heller, Blue Bird, Sun Side, silver, lead and copper. Shaft: retractory; hand.
Mammoth Juab, Ry, 776.	Gerber & Hofer. Hungarian, silver and lead. Shaft and tunnel, 20 tons.
(2 miles).	Manmoth Mining Co., Salt Lake City, Utah. Wm. Melatyre, prest.; J. Fred Corker, seey.; Samuel Melntyre, treas.; J. A. Cumingham, mgr. Cap. stk. \$400,000. Manmoth, gold, silver, lead and copper. Shaft, 9,000 tons; refractory; steam. W. M. Neshit, supt.
Marysvale Pr Ute Ry, Salina, 6#6 (43 m.).	Willis M. Ames, secy.; Frank Knox, treas.; Isaac Jennings, mgr. Cap. stk. \$2,500,000. Peal and Hard Cash, gold and silver. Tunnels and shaft, 3,000 tons; free; water; mill.
W	Ferris Gold & Silver Mining Co., Salt Lake City, Utah, 60 E. Temple st. Lorenzo Snow, prest.; A. M. Musser, secy; B. H. Shuttler, treas; A. F. Gregirson, mgr. and supt. Cap. stk. \$6,000,000. Twelve mines, gold. Tunnels; tree (developing).
· ·	Gold Belt Mining & Milling Co., Salt Lake City, Utah, 43 W. Second South st. Wm. F. Colton, prest.; W. H. Donnell, seey.; E. L. Carpenter, treas.; C. A. Ames, mgr. Cap. stk. \$60,000. Hidden Treasure, Giles, Gold Belt, Gold Belt Extension, gold and silver. Tunnel; free; hand (developing). D. A. Giles, supt.
**	Webster Mining Co., Salt Lake City, Utah. Webster Group, gold, silver and lead. Tunnels; refractory; 10 concentrators. John Fergusson, supt.
Milford Beaver Ry, 776 (16 miles).	James Barretts. Moscow. Tunnels and shafts, 50 tons; free and refractory; hand.
44	John T. Kelly. Anvil, gold, silver and lead. Slope; free; hand.
65 65 66 66 66 66 66 66 66 66 66 66 66 6	James Lavelle. Iron, gold, silver and lead. Slope, shaft and tunnel; free; hand.  W. R. Sloan. Atlas, gold, silver and lead. Tunnels, shafts and inclines; refractory; hand.
	Talisman & Stalwart Consolidated Silver Mining Co., Seattle, Wash. J. F. McNaught, seey.; H. Hefner, mgr. Cap. Sk. \$1,000,00. Talisman and Stalwart, silver and lead. Slope; retractory; horse and hand (developing). Peter 8. Martin, supt.
Miller Hill Utah P. O. and Ry. Ameri- can Fork 215, 776.	The Treasure Consolidated Gold & Silver Mining Co., American Fork, Utah. James Chipman, prest.; Edward Winn, vprest.; Washburn Chipman, seey, and treas. Cap. 8tk. 82,500,000. Treasure, Dolphin, Nemo, Oliver, gold, silver and lead. Tunnels.
Minersville Beaver Ry, Milford 776.	W. L. Croff. Creole, Two Lone Brothers, Raftler and others, gold, silver, iron, copper, lead and bismuth. Tunnels and shafts: free (developing).
(7 miles),	Gressmen Bros. North Galena, gold, silver and lead. Open pit; free; hand.
64 64	Monte Cristo Mining & Milling Co., Salt Lake City, Utah, 20 E. First South st. J. G. Jacobs, prest.; Joseph T. Bache, seve; Oscar Zijd, treas.; J. H. Dupaix, v-prest., mgr. and supt. Cap stk. \$1,000,000. Monte Cristo, gold, silver and copper. Tunnels and shafts, 70 tons; free; water, 5 stamps.
44 65	Charles Rolf. Maybel and others, gold and silver; water.
Mona. Juab Ry. 776.	Lorenzo Babcock. Cap. \$1,200. Hidden Treasure, gold, silver, iron and mica. Tunnel, 150 tons; hand.
(5 miles).	Elias Molyneux. Cap. \$4,000. Gold King, gold and silver. Shaft, 1 ton; free: hand.
63.	Starr Bros. Enterprise, gold, silver and lead. Slope and tunnel, 10 tons; hand.
	John Yafes & Ruben Stevens. Cap. \$4,000. Great Eastern, silver and lead. Shaft.
Ogden	Don Magnire, 549 Twenty-fifth st. Cap. \$100,000. Santa Maria, gold and silver. Tunnel, 300 tons: re- fractory; horse. John Reddy, supt.
11, 210, 110.	Red Jacket Mining & Milling Co., First National Bank Block. H. P. Westover, prest.; John E. Bagley, seey.; W. V. Helfriet, treas.; C. K. Westover, mgr. and supt. Cap. stk. \$2,000,000. Red Jacket, Queen of Hills, gold and silver. Shaft and timnel, 2000 tons; free; hand and steam.
Ophir Tooele Ry.Stockton776(19 m).	Estate of Gen. P. E. Connor. Chloride Point, silver. Tunnel, 300 tons; free.

# GOLD AND SILVER (CONTINUED)

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, NAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

and Shipping Point.	of Power Used, Stamp Mills, Etc., and Name of Mine Suffringendent.
TOWN AND COUNTY.	OF AUTER COMPLETE STAND OF MARIN POLICE
OphirTooele (Continued.)	Consolidated Mining Co., St. Louis, Mo., cor. Second and Cass av. W. F. Niedringhaus, prest.: Alex. Niedringhaus, seey, and treas; E. J. Raddatz, mgr., and supt. Cap. stk. \$100,000. Buckhorn, silver and lead. Shaft, slopes and tunnels, 1,000 tons; refractory; steam.
46	Gladstone Mining Co. Gladstone, gold, silver and lead. Shaft, tunnel, slope and open pit: refractory and free; hand. Geo. St. Clair jr., supt.
(to mites).	Little Pittsburg Mining Co., Salt Lake City, Utah, 46 Central Block. P. Condon, prest.; A. F. Groves, seey, and trens. James McEvoy, nagr. and supt. Cap. stk. \$2,000,000. Little Pittsburg Group, gold and silver. Slope and tunnel; free; hand.
(12 miles).	Patrick McAfee, Margaret Kelly & Lewis W. Clark. Northern Light, gold, silver and lead. Shaft, 750 tons; free and refractory; horse.
Park City Summit Ry. 776 (3 miles).	Alliance Muning Co., Salt Lake City, Utah, 68 Main st. A. Hanauer, prest.; C. T. Stevenson, seey.; Jas. Glendenning, treas.; N. Treweck, mgr. Cup. stk, \$100,000. Nine claims, gold, silver and lead. Shafts and tunnels; refractory; steam. Geo. B. Norman, supt.
\$6 \$4	Anchor Mining Co., Cleveland, Ohio, 44 Euclid av., John L. Woods, prest.; D. C. McLaughlin, seey.; W. S. McCornick, treas.; Edward P. Terry, mer. Cap. stk. \$5,000,000. Anchor, gold, silver and lead. Tunnels and shadr, 56,650 toos; refractory, steam; mill. David Keth, supt.
** **	Crescent Mining Co. L. H. Withey, prest.; H. M. Hinsdill, secy.; W. S. McCormick, treas.; James McGregor, mgr. Cap. 8tk. \$15,000,000. Forty mining claims, gold, silver and lead. Shaft and tunnels, 5-582 (nos. free); steam. James Hickey, sipd.
46 46	(Daly Mining Co., Salt Lake City, Utah, 125 S. Main St. R. C. Chambers, prest, angr. and supt.; Thos. J. Almy, seey.; J. B. Haggin, freas. Cap. 8th, 83,000,000. Daly, gold and silver. Shaft, 23,948 tons: refractory; steam; sostamps, chloridizing furnace.
Maria Maria	Gleneoc Mining Co., Sall Lake City, Utah. M. Shanghnessy, prest.; H. G. McMillan, seey.; George S. Frink, vprest, and treas. Cap. stk. 82,500,000. Gleneoc, sliver and lead. Tunnel; refractory; steam. W. M. Curtls, supt.
. 44	Jupiter Mining Co., Council Bluffs, Iowa. Geo. F. Wright, prest.; Wm. Seldentopf, seey.; Wm. Moore, trens.; Chas. E. Street, upin, and supt. Cap. 8tk. \$3,000,000. Seventeen mining claims, gold, silver and lead. Timules (developing).
Provo City . Utah Ry. 215, 776.	Ontario Silver Mining Co., Salt Lake City, Utah, 125 S. Main St. J. B. Haggin, prest, and treas.; Irwin C. Sump, seey.; R. C. Chambers, mgr. and supt. Cap. stk. \$15,000,000. Ontario, gold and silver. Shaft, 37,348 tons; refractory; steam, 40 stamps, 2 chloridizing furnaces.
Rush Valley . Utah (P. O. American Fork) Ry.RushVal.8idg.776.	Provo Slate Co., 44 Union Block. W. R. Pike, prest., Edward Pike, seey.; F. W. C. Hathenbruck, treas. mgr, and supt. (ap. stk. §100,000. Placer No. 1, gold, silver and state. Tunnet, free.
Silver City Juab Ry, 776.	Buffalo Bill Mining Co., John J. Cushling, prest.: Fred B. Gillett, vprest., C. E. Powell, treas.: R. W. Jones, seey. Cap. 8tk. \$100,000. Gold, silver, lead and from Tunnel and shaft; horse. R. W. Jones, supt.
	Brooklyn Mining Co., Springville, Utah. Brooklyn, gold and silver. Shaft, too tons, refractory, horse,
44	Cleveland Consolidated Mining Co. Geo. Ryan, prest.; Charles 8, Horne, seey, and treas. Cap. stk. \$125,000. Gold and silver. 400 tons, refractory; horse and steam.
	Columbus Mining Co., Cedar Rapids, Iowa. Samuel P. Ely, prest.; John S. Ely, seey, and treas. Cap. stk. \$1,000,000. Julian Lane Group, gold and silver. Shati and tunnel; free and refractory. H. C. Wilkin, supt.
49 65	Golden Treasure Mining Co., Salt Lake City, Utah. Judge Marshall, prest., J. E. Dooly, seey., treas, and mgr. Golden Treasure, gold and silver. Shaft, 2,000 tons, free; horse. Wm. Carruthers, supt.
	H. D. Jones, Undine, silver and lead. Tunnel, shaft, 500 tons, refractory; hand.
41	Mountain King Mining Co., Salt Lake City, Utah. O. J. Cooke, prest.; F. M. Benediet, seey, and mgr.; E. Griffeths, treas. Cap. stk. \$100,000. Monterey, silver and lead. Shaft; free; horse, T. Port, supt.
44	Phoenly Mining Co. Phoenix, gold, silver and copper. Shaft, tunnel (developing). Geo. 8, Rust, supt.
84 **	Pride of the Hills Mining Co., Salt Lake City, I tah, 38 W. Second South St. D. A. Shiley, prest. James L. Vundt, seey, and treas; J. W. Smith, mgr, and supt. Cap. Sik, \$500,000. Pride of the Hills, Mormon Chief, Sunday and others, gold, silver, lead and from. Tannets, sharts; retractory; horse.
64	A. Roberts. Cap. \$10,000. North Star, gold, silver, lead and copper. Tunnel, 480 tons; refractory; hand,
	Silver City Gold & Silver Minling Co., Salt Lake City, Utah, 29 and 50 Commercial Bidg. C. R. Hancock, prest, and mgr.; F. Rehrman, seey.; H. J. Osborne, treas. Cap. 8tk, 80,000. Wheeler, Silver and lead. Shaff; horse, J. W. Black, supt.
а	Silver Spar Mining & Milling Co., Geo. Ryan, prest.; James A. Pollock, vprest.; George F. Downey, treas.; Amid Dodd, seey. Cap. stk. \$1,500,000. Gold, silver and lead. Refractory; horse and steam (developing). Geo. Ryan, supt.
64 44	Sioux Consolidated Mining Co., Provo City, Utah. S. S. Jones, prest.; Albert Jones, seey, and treas.; C.E. Loose, mgr. and supt. Cap. \$1,000,000. Sioux, gold and silver. Shaft and slope, 1,000 tons; refractory; horse and band.
	South Swansea Mining Co. J. T. Croxall, mgr. and supt. Uap. stk. \$30,000. South Swansea, silver, iron and lead. Shaft, 250 tons, refractory, horse.
44	Tesora Silver Mining Co., Chicago, Ill., 225 Dearborn St. George E. Church, prest.; E. B. Chandier, seey.; F. W. Farwell, treas.; C. H. Blanchard, ngr. and supt. Cap. 84k, \$90,000. Tesora, gold and silver. Shaft, refractory; horse.

Stormont Mining Co., Philadelphia, Pa., 208 S. Fourth st. Charles Hirehman, prest. Savage, Buck-eye, Last Chance, MacNally and Thompson, silver. Shaft; free, steam, to stamps.
 Woolley, Land & Judd. Barbee and Walker, silver. Slope; free; steam; 5 stamps. H. W. Miles, supt.

Silver Reef Washington Ry. Allford 776.

Kry. Allford 776.

Christy Mining Co., San Francisco, Cal., 410 Pine st. Robert N. Graves, prest.; George R. Spliner, seey.; Anglo-Californian Bank, trens.; D. M. Tyrrell, mgr. and supt. Cap. stk. \$1,000,000. Christy, Silver. Shift and slope; free; steam; a stamps.

(26)

# GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOXS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
StocktonTooele Ry.Terminus 776(2 m.).	Argent-Wade Hampton Mining Co. John F. Connor, propr. Cap. \$1.500. Argent and Wade Hampton, gold, silver and lead. Slope, 100 tons; horse.
44	F. Durgy & Co. Cap. \$30,000. Alice Group, gold and silver. Shafts; steam. E. J. Raddtz, supt.
44	L. Osgood. No U. Don't, gold, silver and lead. Shaft and funnel; refractory; steam,
da la	J. C. Reynolds. Bunker Hill, silver and lead. Shafts, 500 tons; steam and horse.
	Shampook Mining Co. C. R. Mitchener prost : E. R. Critchlaw seev and trees : F. R. Mitchener mar-

West Tintic..... Juab (P. O. Nephi) Ry. Iron-ton 776.

LOCATION OF MINE,

veloping).

Shamrock Mining Co. C. E. Mitchener, prest.; E. B. Critchlow, secy. and treas.; E. B. Mitchener, mgr and supt. Cap. stk. \$500,000. Shamrock, silver and lead. Shaft; steam (developing). Tintie... Tooele (Not. a.P. O.) Rew Tintie Mining & Smelting Co., Salt Lake City, Utah, Central Block, Rooms 34 and 35. P. A. H. Franklmont 776. https://doi.org/10.1008/j.central.cen

Tooele ... Tooele Pine Cyon Mining Co., Salt Lake City, Utah, 64 West Second South st. W. M. Miner, prest; Criston Johnson, seey; J. M. Hamilton, tress; Benj. Peasnall, mgr. and supt. Cap. stk. \$200,000. Pine Cyon, gold, silver and lead. Tunnel; free. Juab J. R. Hickman, P. O. Box 23. Hickman, Clayton and Wright, gold, silver and lead. Shaft and inclines (de-

# GYPSUM

RAILWAYS, WATER ROUTES AND SHIPPING POINT.		Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Mills, Etc., and Name of Mine Superintendent,	STOCE,
TOWN AND	COUNTY.		
Nephi Ry. 776.	Juab	Nephi Plaster & Mannfacturing Co., Main st. John Hague, prest.; J. A. Hyde, secy., treas. Cap. stk. \$100,000. Nephi. Open pit, 2,400 tons; water.	and mgr.

#### TRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,00 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
fron City Iron P.O. & Ry. Milford 776.	'onsolidated Implement Co., Cedar City, Utah. G. G. Davis, prest, and treas.; James Woolsey, seey.; E. J. Eddards, mgr. Cap. stk. \$2,000,000. Flag Staff, Wall Street, American Eagle, iron. Tunnel; refractory. David Woolsey, supt.

	LEAD AND ZINC
LOCATION OF MINE, RAILWAYS, WATER KOUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,90 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
Park City Summit Ry, 776.	Park City Mining Co. John L. Street, prest.; Chas. E. Street, seey., treas. and mgr. Cap. stk. \$100,000. Seven claims, lead. Shaft and tunnel.
AND SHIPPING POINT.  TOWN AND COUNTY.  Park City	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,00 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.  Park City Mining Co. John L. Street, prest.; Chas. E. Street, seey., treas, and mgr. Cap. 8tk, \$100,00

# MINERAL WAX

LOCATION OF MINE,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK
RAILWAYS, WATER ROUTES	NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED,
AND SHIPPING POINT.	MILLS, FIC., AND NAME OF MINE SUPPRINTENDER!
TOWN AND COUNTY.	

Soldier's Summit ...Utah Ozocerite Mining Co., New York, N. V., 280 Broadway, J. Wallace, prest.; Chas. H. Barkley, seey, and Not a P. O. . Ry. 215. treas.; R. J. Krompa, mgr. and supt. Cap. 8tk, \$1,250,000. Summit, mineral wax. Shaft; steam.

# SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INGIVIOUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.  NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNOAL OUTFUT IN TONS OF 2,000  FOUNDS, KIND OF POWER USED, ETC, AND NAME OF MINE SUBERINTENDENT.
TOWN AND COUNTY.	
Centerville Davis Ry, 776.	Saginaw Salt Co., Salt Lake City, Utah. E. E. Rich, mgr. Cap. 8tk, \$50,000. Made from Great Salt Lake by evaporation, coarse, fine and dairy. 20,000 tons; steam.
Nephi	Nephi Salt Minlug & Manutacturing, Co. Geo, C. Whitmore, prest.; C. S. Tingey, seey., treas, and mgr. Cap. stk, \$25,000. Rock. Mine, open pit, 19,000 tons; hand.
Salina Seyler Ry, 215.	Lewis & Gottfredsan. Cap. \$3,000. Lewis & Gottfredsan, rock salt. Open pit, 250 tons; hand.
Salt Lake City Salt Lake Ry, 626, 776.	People's Forwarding Co., 26 E. Second South St. E. E. Rich, treas, and mgr. Cap. \$50,000. Lake Shore, water from Great Salt Lake, coarse. 25,000 tons; steam. Chas. Backman, supt.
**	Saghiaw Saft Co., 24 E. Second South st. E. E. Rich, prest, and mgr.; S. F. Walker, seey, and treas. Cap. stk. \$50,000. Saginaw, water from Great Saft Lake, coarse. 20,000 tons; steam. Chas. Backman, supt.
	Desert Salt Co. James Sharp, prest.; C. W. Lyman, seey and treas.; Geo. J. Waller, mgr. Cap. 8tk. \$30, 000. Desert, charse. 42,000 tons; steam.
Syracuse Davis Ry, 215, 776.	Adams, & Keisel Salt Co., Ogden, Utah. D. C. Adams, prest.; H. A. Lindsey, seey.; Theo. Schausenbach, 11783.; Wh. Ashausenbach, mgr. Cap. 8tk. 8100,000. Pumped from Great Salt Lake, coarse salt. 25,003 tons; steam.

# SLATE

LOCATION OF RAILWAYS, WAT AND SHIPPING TOWN AND	ER ROUTES	NAME OF COMFANT OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USEO, MILLS, ETC., AND NAME OF QUARRY SUFERINTENDENT.
Provo City Ry. 215, 776.	, Utah	The Colorado & Utah Mining & Slate Co., Colorado Springs, Colo., P. O. Rox 141. E. C. Burton, prest.; W. W. Williamson, seey.; Walter Burlew, treas. Cap. 8tk, 81,000,000. Hota and Charleston, blue, gray and pluk slate. Open pits.
* .		Hathenbruck & Pike, Provo City, Utah, 14 Union Block. F. W. C. Hathenbruck, prest., mgr. and supt.; Edward Pike, seey., W. R. Pike, treas. Cap. stk. \$20,000. Provo, slate. Open pit, 30,000 tons; water and steam; mill.
		ONE, MARBLE, GRANITE AND ONYX
LOCATION OF OR QUAR RAILWAYS, WAFE AND SHIPPING TOWN AND	RY, ER ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIER MILLS, LIMERILISS AND CAPACITY, ETC., AND NAME OF MINE SUFERINTENDENT.
Charles Charles	1/200	Parameter W. Commander and M. D. Charles David December 11 and 12 and 13 and 14 and 15

Castle Gate Ry,215.	Emery	Ferguson & Carpenter, Salt Lake City, Utah, P. O. Box 1555. Uap. \$5,000. Sharp's, sandstone. Open pit, 10,000 tons; hand. J. L. Ferguson, supt.
Cedar City . Ry, 215.	Iron	Williams & Bladen (local). Cap. \$700. Red Cloud, limestone. Open pit, 300 tons; hand; mill.

Ephrain San Pete E. L. Parry & Sons, Manti, Utah. E. L. Parry, treas.; E. T. Parry, seey. Odific. Slope, 400 tons; hand. John C. Johnson, supt.

Park City
Ry, 776.

Summit Metropolitan Stone Co., Salt Lake City, Utah, Hooper Block. Simon Bamberger, prest.; W. T. Ketler, seey.; H. M. McCartney, ngr. Cap. 8tk, \$50,000. Metropolitan, sandstone. Open pit; steam. Alf. A. Hady, supt.

# SULPHUR

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAFITAL STOCE, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,00 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
Sulphurdale Beaver P. O. and Ry. Black Rock 776.	Dickert & Myers, Saft Lake City, Utah. J. H. Burfeind, mgr. Cap. stk. \$2,000,000. Cove Creek. Openpit, 45,000 tons; steam.

SEE ALSO SUPPLEMENTARY LIST

# VERMONT

#### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY. AND

Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

South Strafford . .Orange Ry. Pompanoosic 71.

Elizabeth Mining Co., Baitimore, Md., 301 N. Charles st. Jas. W. Tyson, prest.; Wm. Glenn, seey.; M. D. Tyson, treas.; Geo. W. Dow, mgr. and supt. Cap. stk. \$500,000. Elizabeth. Shaft and tunnel; steam.

#### KAOLIN

Location of Mine or Bank, Railways, Water Routes, and Shipping Point. Town COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT

Bennington. Bennington S. C. Lyons & Bros. Kaolin, ocher. Shaft, slope, 1,500 tons; water; steam.

S. Shaftsbury Bennington S. C. Lyons & Bros. Kaolin, other. Shaft, slove, 500 tons; water; steam,

#### MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Bennington. Bennington Enos Adams & Co. Vellow ocher, crystallized quartz. Shaft, 800 tons; water; stone mills.

Leicester. Addison Crown Point Mineral Paint Co., Crown Point, N. Y. Chester Griswold, prest. Cap. \$10,000. Ocher 20. Shaft, 800 tons; steam; mill. H. C. Brownson, supt. Ry. Brandon 120.

#### SLATE

LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.

Castleton Rv. 213.

Rutland Billings Slate & Marble Co. C. W. Billings, prest.; C. W. Tennant, secy, and treas. Cap. stk. \$50,000, Trojan. Open pit, tunnel, 900 tons; steam; mill. Patrick Quinn, supt.

Bolger Bros. Cap. \$50,000. Open pit, 14,000 tons; steam; mill. R. Hanger's Slate Works. Cap. stk, \$35,000. Open pit, tunnel, 1,000 tons; steam; mill. Wm. R. Hughes, supt

Lake Bomoscen Slate Co. Cap. \$50,000. Lake Bomoscen. Open pit, 2,000 tons; steam; mill. John Delehanty, supt. Rutland Coulman & Westcott, Cap. \$25,000. Open pit, 1,200 tons; steam; mill. Wm. Francis, supt.

Fair Haven ...

Fair Haven Marble & Marbleized Slate Co. C. R. Allen, prest.; F. E. Allen, secy. and treas.; E. L. Allen, mgr. Cap. stk. \$100,000. Open pit, 1,000 tons; steam, water; mill. Francis & Co. Open pit; horse. William Francis, supt.

Jones, Owens & Co. Open pit, 760 tons; horse. Rutland Thomas R. Griffith. Open pit, 1,800 tons; steam.

Pawlet... 1 Ry. Granville, 213,

W. H. Hughes. Open pit; steam.

Norton Bros. Cap. \$45,000. Open pit; steam; mill.

Owen W. Owen's Sons. Cap. \$10,000. Open pit, 3,000 tons; steam.

Rising & Nelson, Cap. \$10,000. West Pawlet. Tunnel, open pit, 10,000 tons; steam. John R. Robert,

Williams & Edwards. Cap. \$30,000. Open pit, 5,000 tons; steam, horse.

Poultney... Ry. 213. Rutland

Auhl & Conger, Cleveland, Ohio, 100 Euclid av. Cap. stk. \$100,000. Mammoth. Open pit. 30,000 tons; steam. M. J. Jones, supt. Buckeye Slate Co. Seth Roberts, prest, and seey.; R. L. Jones, treas, and mgr. Cap. stk. \$10,000. Buckeye. Open pit, 55000 tons; steam.

Closs & Owens, Camaroon, Open pit; horse,

Eastern Slate Co. Robert Jones, prest.; W. R. Jones, seey.; Robert J. Davis, treas.; David R. Davis, mgr.

### SLATE (CONTINUED)

RAILWA AND S	TION OF QUARRY, YS, WATER ROUTES SHIPPING POINT.	Name of Company or Individual Location of Principal Office, Names of Officers, Capital Stock, Name of Quarry, Kind of Slate, Kind of Quarry, annual Output in Tons of 2.00 Pounds, Kind of Power Used, Mills, Euc., and Name of Quarry Superinterdunt.
Town	AND COUNTY.	
Poultney		Edwards & Williams. Cap, $\S 6,000$ . Open pit, $6,000$ tons; steam.
4.6		Emnka State Quarries Co. A. Tuttle, treas, and mgr. Emnka. Open pit, 10,000 tons; steam; mill.
4.	**	Hughes, Evans & Co. Evan M. Evans, prest.: Wm. R. Hughes, seey.; R. W. Hughes, treas, and supt.; Hugh R. Hughes, mgr. Cap. stk. \$2,000. Open pit; horse.
6+	41	N. A. Litchfield. Open, 1,000 fors; horse; mill.
**	he	Lloyd & Jones, Cap. \$4,500. Slope, 740 tons, steam, R. W. Jones, supt.
4+	14	N. E. Lloyd Slate Co. N. E. Lloyd, prest.; N. H. Lloyd, secy. and treas.; M. Roberts, mgr. and supt. Cap. \$50,000. Peerless. Open pit, 5,000 tons; steam; mill.
	**	Minogue & Greer, Cap. \$30,000. Evergreen, 4,600 tons; steam, mill.
**		Parry & Jones, Open pit; steam,
	4.0	Valley Slate Co. R. E. Lloyd, propr. Cap. \$4,000. Slope, 748 tons; steam.
**	**	Vermont Slate Mining Co. W. H. Kirtland, prest,; N. A. Latchfield, seey., treas, and mgr. Cap. 8tk. \$50,000. Poultney. Tunnel, open pit, 5,000 tons, steam, horse; mill. Thomas R. Maylor, supt.
Wells Ry.0	Rutland (ranville, N.V.,213,	W. E. Roberts. Open pit, horse,
West Pa Ry. S		S. C. Denison, Cap. \$10,000. Slope; steam.

### SOAPSTONE

RAILWA	OR BANK TS, WATE SHIPPING	R ROUTES,	Namp of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name and Kind of Mine on Bane, annual Outfot in Tons of 2,000 Founds, Kind of Power Used, Etc., and Name of Suteminendent.
Town	AND	COUNTY	

Waterville

Ry. Jettersonville 120.

Stockbridge ..., Windsor Tweed River Tale Co. N. D. Parker, prest., F. Durkee, seey, and treas., J. N. Bugbee, mgr. Allen, tale, Ry. Bethel 129. Open pit, 100 tons; horse.

Lamollle Vermout Agalite Pulverizing Co., Rutland, Vt. H. O. Elson, prest., F. G. Swimington, seey.; H. O. Carpville 120, penter, treas.; Daniel Fosburgh, ngr. and supt. Cap. stk. \$50,000. Tale. Open pit; steam, mill developing f.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OPFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2000 POUNDS. KIND OF POWER 1 SED, STONE OR MARBLE MILLS, LIMERILIS AND

ANI	SHIPPING POINT.	2.00 Pounds, Kind of Power 1 sed, Stone or Marble Mills, Limebilus and
Tows	AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Barre Ry	Washington 120, 49.	H. I. Cheney, Cap. \$4,000. Granite. Open pit, (25,000 tons); horse,
**	44	Drew, Parkhurst & Co. Cap. \$13,000. Granate. Open pit; steam.
**	**	41. A. Duffy & Son. H. A. Duffy, prest, and trens., Francis A. Duffy, seey, and mgr. Cap. 8tk. \$15,000. Barre, granite. Open pit; steam. G. B. Roby, supt.
	4.9	Empire Granite Co. Cap. \$45,000. Open plt, 25,000 tons; steam. M. E. Coughlin, supt.
	44	Excelsior Granite Co., Montpelier, Vt. 8, 1, Staples, prest.; O. J. Copeland, seey, and treas. Cap. 8tk. \$40,000. Excelsior, granite. 1,500 tons; steam; mill.
**	**	James Gazeley, Albany, N. V. Cap. \$50,000. Granite. Open pit, 2,000 tons; steam; mill. John Sawyer, supt.
"	1+	Langdon Granite Co., Montpelier, Vt. James R. Langdon, prest. James M. Bontwell, treas, and mgr. Cap. 8tk, \$1,000. Langdon, granite. Slope, open pit, 2,400 tons; steam. Henry Coughlin, supt.
		Mann Bros. Granite. Steam.
4.0	**	Milne & Wylie. Cap. \$20,000. Granite. Open pit, 4,300 tons; horse; mill.
**	44	A. D. Morse, Cap. \$60,000. Granite. Open pit, 1,600 tons; horse, water; mill.
14	k o	John O'Rourke, Cap. \$10,000. Barre Standard, granite. Open pit; horse, hand; mill.
	44	H. N. Parkhurst, Cap. \$15,000, Granite, Steam.
5.6	**	E. L. Smith & Co. Cap. \$60,000. Granite. Open pit, 5,000 tons; steam, horse; mill.
4.6	**	C. E. Tayntor & Co., New York City, 239 Broadway. E. M. Tayntor, mgr. and supt. Cap. 8tk, \$50,000, Barre, granite. Open pit, 2,500 tons; steam.
- 11	**	Vermont Granife Co. S. C. White, prest, and treas.; H. K. Bush, seey. Cap. stk. \$150,000. Granife, Tunnel, 5,400 tons; steam, horse; mill.
14	6.6	H. Webster, Cap. \$140,000. Webster, granite. Slope, open pit, 800,000 tons; horse, hand; mill.

Wells, Lamson & Co. Cap. \$40,000. Granite. Open pit, 3,200 tons; steam, horse; mill.

Whitmore & Morse Granite Co., Montpeher, Vt. Albert Johonnott, prest.: F. L. Eaton, treas., N. W. Frink, mgr. Cap. 8tk, \$100,000. Granite. Slope, open pit, 5,433 tons; steam; mill. N. Bond, supt.

# STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

STONE, MARBLE, GRANITE AND ONYX=(CONTINUED)			
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL NTOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARRIE MILLS, LIMERILMS AND CAPACITY, ETC., AND NAME OF MINE SUFFRINTENDENT.		
Bethel Windsor Ry. 120.	C. Dingman. Granite. Open pit.		
	Brandon Italian Marble Co. James P. Upham, prest.; H. D. Bacon, seey., treas. and mgr. Cap. stk. \$200,000. Brandon Italian, marble. Open pit, 50,000 tons; steam; mill.		
4	Briggs & Johnstone, T. J. Johnstone, mgr. Cap. 8tk. \$80,000. Brandon, marble. Open pit, 2,000 tons; steam; 2 mills. T. McGnire, supt.		
44	Peck & Harris. Marble, Open pit; steam, horse; mill. L. B. Peck, supt.		
Brownington, Orleans Ry, Barton Landing 71.			
	G. N. Willard, 80 Shelburn st. Sandstone. Open pit, 6,000 tons; hand. H. G. Willard, supt.		
•	Granite Construction Co., Montpelier, Vt., 68\(^2\) E. State st. George H. Guernsey, prest. and treas.; A. Shambo, vprest. Cap. stk. \$6,000. Granite. Slope, open pit, \$0.00 tons. N. Dubuc, supt.		
	Lester Cleveland. Clyde River, granite. Open pit; horse, hand.		
4	Moir Granite Co. E. G. Miller, prest.; George H. House, secy. and treas. D. W. Moir, mgr. Cap. stk. \$100,000. Granite. Open pit, 5,000 tons; steam. D. W. Moir, supt.		
44	Curtis Willey. Cap, \$3,500. Derby, granite. Open pit, 1,075 tons; hand.		
Dorset Bennington Ry. East Dorset 5s.	J. K. Freedley & Sons, Philadelphia, Pa., 210 S. Twenty-fourth st. Manchester, marble. Open pit, 2,000 tons; steam; mill. E. R. Harwood, supt.		
Fair Haven Rutland Ry, 213.	J. W. Williams & Co. Sandstone. Open pit, 250 tons; horse,		
Fairlee Orange Ry. 71.	Fairlee Granite Co. Cap. stk. \$200,000. (Developing.)		
Graniteville. Washington Ry. 49.	Vermont Quarry Co., Montpeller, Vt., 73 Main st. R. C. Bowers, prest, and mgr.; F. L. Eaton, secy. and treas. Cap. stk. \$15,000. Granite. Open pit, 2,000 tons; horse.		
Hardwick . Caledonia Ry, 703.	Brush & Curtis. Crystal Brook, granite. Slope, 500 tons; horse; mill.		
	Hardwick Granite Co. Cap. \$25,000. Granite. Water; mill.		
Leicester Addison Ry.West Salisbury 120,	Brandon Lime & Marble Co. J. W. Buell, prest.; O. C. Huntley, secy., treas, and mgr. Cap. stk. \$15,000. Limestone. Open pit, 30,000 tons; horse; limekiln, capacity 30,000 tons.		
44 44	Leicester Marble Lime Co. G. O. Swimington, prest.; J. A. Swimington, seey.; J. C. Swimington, treas., mgr. and supt. Cap. stk. \$12,000. Limestone. 7,000 tons; steam; limekiln, capacity 50,000 brls.		
Pawlet Rutland Ry.Granville, N.Y., 213.	S. E. Culver. Cap. \$10,000. Open pit, 600 tons; horse.		
Pittsford Rutland Ry. Rutland 5s, 213.	Wheaton Quarry Co. J. B. Hollister, mgr. Wheaton, marble. Open pit, 3,000 tons; steam.		
Proctor Rutland Ry. 120.	Columbian Marbie Co. Samuel Harlow, prest.; R. Barrett, secy., treas, and mgr. Cap. stk. \$150,000. Columbian, marble. Open pit, 5,000 tons; steam; mill. M. R. Dunton, supt.		
Ryegate Caledonia Ry. 71.	Ryegate Granile Works Co. Ryegate, granite. Open pit, 1,000 tons; water; mill. E. E. Batchelder, supt.		
Victory Essex Ry. Morrills 703.	C. A. Story. Cap. \$2,000. Granite. Open pit; steam.		
Wallingford Rutland Ry, 58,	W. W. Kelley & Son. George W. Kelley, mgr. Marble. Open pit, 500 tons: steam, water; mill. Thomas Norton, supt.		
W.DummerstonWindham Ry. 120.	George E. Lyons Granite Co. George E. Lyons, prest, and mgr.; George S. Dowley, secy, and treas. Capstk. \$75,000. Granite. Open pit, 16,000 tons; steam, horse. D. J. Bailey, supt.		
Westmore,Orleans Ry, West Burke 71.	Cap. stk. \$70,000. Pike, sandstone.		
West RutlandRutland Ry, 213.	Albertson, Marble Co., Woreester, Mass., Knowles Bldg. Wm. R. Albertson, prest, and seey.; L. G. Biglow, treas.; W. H. Skeeles, mgr. and supt. Cap. stk. \$120,000. Esperanza, marble. Open pit, 3,000 tons; steam; mills.		
	Rutland White Marble Co., Worcester, Mass., 339 Main st. C. H. Fitch, prest.; C. H. Barbour, secy.; A. L. Burbank, treas.; J. W. Howe, mgr. Cap. stk. \$300,000. Rutland White Marble Quarry, white marble. Open pit: steam: mill. M. H. Murphy, supt.		
**	The Dies Markly Co. J. W. Drupten areast . Course D. Bourg agent those and more Con. the designer		

Woodbury - Washington - Woodbury Granite Co. George O. Woodcock, prest.; C. A. Watson, seey.; W. H. Fullerton, treas, and hgr. Cap. stk. \$200,000. Granite. Open pit, 4,200 tons; hand. C. L. Sanford, supt.

True Blue Marble Co. 1. W. Brumton, prest.; George B. Royce, seey., treas, and mgr. Cap. stk. \$500,000.

True Blue, marble. Open pit, 6,000 tons; steam; mill, limekiln, 2,000 tons. George C. Underhill, supt.

Vermont Marble Co. F. D. Proctor, prest, and mgr.; F. A. Baker, seey.; F. R. Morse, treas. Cap. stk. \$5,000,000. Marble. 50,000 tons; steam, water; mill.

# VIRGINIA

# COAL-ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

N AND COUNTY

Coeburn..... Wise Ry. 523.

Price's Fork, Montgomery Ry. Vicars Switch 523.

Radford. . . . Montgomery Ry. Vicars Switch 523. NAME OF COMPANY ON INDIVIDUAL, LOCATION OF PHINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF FOWER USED. COAL BREAKERS, WASHERS, CORE OVERS, AND NAME OF MINE SUPERINTENDENT.

Wise | Pine Run Coal & Coke Co. | C. H. Montgomery, prest.; W. S. Mitchell, seey, and treas.; J. L. Rankin, mgr, and supt. | Cap. stk. \$20,000. | Ada. | Tunnel, 50,000 tons; horse.

M. S. Price, Cap. \$2,000. Tunnel; hand.

Virginia Hard Coal Co. G. Van Dorn, prest. C. C. Boykin, seey, and treas. Cap. stk. \$25,000. Slope, tunnel; steam (developing). W. T. Jenkins, supt.

#### COAL BITUMINOUS

LOCATION OF MINE. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, RAILWAYS, WATER ROUTES NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, AND SHIPPING POINT. COAL BREAKERS, WASHERS, CORE OVENS, AND NAME OF MINE SUPERINTENDENT. Wise Big Stone Gap Coal Co., New York, N. Y., t Broadway. Hon. D. J. Turner, prest.; F. H. Leonard, seey.; W. E. Voung, treas.; L. B. Deadwell, v.-prest, and mgr. Cap. stk. \$500,000. Drift, 37,500 tons. Joseph Big Stone Gap ginla, Tennessee & Carolina Steel & Iron Co., New York, N. Y., 5 Bowling Green. John C. Haskell, prest, T. H. Wentworth, seey.; D. H. Conklin, mgr. Cap. stk. \$4,000,00. Looney Creek. Tunnel, 30,000 tons; band. Thomas Johns, supt. Blacksburg: Montgomery Ry, Christiansburg 523. Kanode & Slussus. Cap. \$5,000. Slussus. Slope, open pit, 4,500 tons, horse. C. P. Kanode, supt. Kinger & Schaeffer, Cap. stk. \$20,000. Stroubles Creek. Slope, 1,000 tons; horse. L. M. Schaeffer, supl nbria Montgomery Ry, Christiansburg 523. W. C. G. Myers. Cap. \$14,000. Price Mountain. Stope, tunnel; horse; steam. Sinkous & Kipps. Cap. \$7,000. Bruce, Brush Mt. Slope, 2,000 tons, horse. A. L. Hawkins, supt. Chesterfield., Chesterfield Ry, Fendleys 259. Ware B. Gay, Boston, Mass., 30 Kelley st. Shaft, 3,000 tons, steam; breaker, Jig. J. T. Jones, supt. Gayton Henrico Ware B. Gay, Boston, Mass., 30 Kelley st. Slope, 3,000 tons, steam, breaker, iig. J. T. Jones, supt. Richmond Coal Mining & Manufacturing Co., Richmond, Va., 40 S. Ninth St. Ware B. Gay, prest, and mgr Cap. \$1,000,000. Shaft, slope, capacity 300,000 tons; steam; breaker, washer. J. T. Jones, supt. Goochland Ware B. Gay, Boston, Mass., 30 Kelley st. Slope, 3,000 tons; steam, breaker, fig. J. T. Jones, supt. Ry. Maidens 132. Midlothian "Chesterfield Ware B. Gay, Boston, Mass., 30 Kelley st. Shaft, 3,000 tons, steam; breaker, jig. J. T. Jones, supt. Ry. Coal Field 622. Pocahontas Ry, 523. Tazewell Southwest Virginia Improvement Co., Philadelphia, Pa., Bullitt Bldg. H. Wickham, prest.; George L. Estabruok jr., seey, and treas. C. E. F. Barnley, nur. Cap. 8tk, 877000. Pocahontas. Dritt. 700,000 tons. horse, 650 coke ovens. C. E. F. Burnley, supt. Price's Fork Montgomery James B. & H. Price. Brush Mountain. Slope, tunnel; horse, ..., Pulaski Bertha Zine A Mineral Co., New York, N. Y., 33 Wall St. B. S. Clark, prest, George M. Holstein, anditor, C. H. Basher, treas: J. V. Johnston, mgr. Cap. 8tk. 84,500,000. Altoona. Tunnel, 18,600 tens: steam. W. H. Case, supt. Pulaski City Ry. 523.

### GOLD AND SILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Tacoma... Ry, 523.

FOWN AND COUNTY

Cambria, Montgomery Ry, Christiansburg 523, Richardsville, Culpoper Ry, Brandy Station 622, NAME OF COMPARY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANDRUG UTTPET IN TOSS OF 2,000 POWER, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SEPERITEDENT.

Peak Creek Coat & Iron Mining Co. George W. Aarbrough, prest, and gen, mgr.; Phil. L. Grasty, seey, and treas. Cap. stk. \$200,000. Open pit, tunnel / developing.
Wise Greeno-Bodine Coat Co. H. S. Greeno, prest, and mgr. W. T. Miller, seey., H. B. Slaughter, treas. Cap. stk. \$20,000. Tagoma. Slope, 36,000 tons; vigual, horse. T. H. Johns, supt.

Varbrough & Walters. Florence, silver. Open p.t.

Winterpoek Chesterfield E. Martin, Cap. \$8,000. Raccoon, Bright Hop : Shaft, slope, 30,000 tons; steam.

Powhatan Land & Mining Co., Fredericksburg, Va. Goo, W. Shonk, prest.; L. G. Johnson, seey., L. B. Landmesser, freax, L. G. Johnson, mgr. Cap. stk. S004000. Powhatan, gold. Shaft, open pit, placer, Lipoutous, free and refractory; steam mll. James P. Smith, sppt.

### GYPSUM

LOCATION OF MINE.
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Town AND COUNTY Chatham Hill.... Smyth Ry. Glade Spring 523.

Smyth 1, M. Gwyn. Cap, \$2,000. Cove, gypsum. 400 tons; horse.

Ry. Marion 523.

Smyth Buchanan & Co. Open pit, 200 tons; hand.

Saltville Washington Ry. 408

Pittsville.

Toshes

Reed Island

.Piffsylvania

d Island .....Pulaski Ry, Kayoulah 523,

Ry. Marion 523.

Buena Vista Plaster Co. F. S. Robertson, prest.; W. B. Robertson, seey., treas, and mgr. Cap. stk. \$100,000. Buena Vista, gypsum. Shaft, 5,000 tons; steam, water, horse; plaster mill, capacity 3,000 tons.

Dingee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Berger, barytes. Shaft, 600 tons; steam. C. E. Woody, supt.

Eva Mining & Manufacturing Co., Pulaski City, Va. J. E. Moore, prest.: L. S. Calfee, Seey. and treas.; Ellis Collier, mgr. and supt. Cap. stk. \$30,000. Eva, Innonite. Open pit, 7,000 tons; steam; horse.

IRON LOCATION OF MINE, RAILWAYS, WATER ROUTES NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind AND SHIPPING POINT. OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT. AND Alleghany Frank Lyman, Covington, Va. Cap. \$50,000. Brown hematite. Tunnel, 18,500 tons. John S. Ham, supt. Backbone Ry. 132. Big Stone Gap Wise Appalachian Steel & Iron Co. E. J. Bird jr., prest.; M. T. Ridenour, seey, and treas.; E. J. Bird, v.-prest, and gen. mgr. Cap. stk. \$450,000. Red Fossil, iron ore, Tunnel, 45,000 tons; horse, hand. Ry. 408, 687 Christiansburg Montgomery King Mining Co., Roanoke, Va. Henry King, prest, and mgr.; Wm. 8, Todd, secy, and treas. Cap. stk. \$60,000. Kingston, red hematite. Open cut, 80,000 tons; steam; Joseph McNight, supt. Ry. 523. ington Alleghany Ry, Backbone 132. Frank Lyman, Brooklyn, N. Y., 50 Remsen st. Brown hematite, 80,000 tons. John S. Ham, supt. Covington Campbell Dingee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Hewitt, barytes. Shaft, 2,500 tons; steam. James Evington Aurora Mining Co. Peter McLaren, propr. Brown hematite. Tunnel, 5,000 tons; gravity. George Ritchie, supt. Ferrol.... Ry. 132. Augusta Fosters Falls Mining & Manufacturing Co. M. B. Tate, prest.: John W. Robinson, seey. and treas.; J. J. Baker, mgr. and supt. Foster, Hammer. Open pit, 25,000 tons; steam, water. Foster's Falls Rv. 523. Wythe Glen Wilton Ry. 132. Botetourt D. G. Cook, Wrightsville, Pa. T. D. Kauffelt, mgr. Wilton. Tunnel, 30,000 tons; horse; furnace, capacity 13,000 tons. R. J. Ruht, supt. Alleghany Iron Co., New York, N. Y., 29 Broadway. F. C. Divinny jr., prest.; F. C. Jones, mgr. Merry Hill, fossil. Tunnel, open pit, 75,000 tons; steam; furnace. Iron Gate. Alleghany Ry. 132. Ivanhoe Pennsylvania Zinc & Iron Co., Roanoke, Va. Henry C. Stupes, prest.; E. Schaefer, seey, and treas.; J. H. Bartlett, mgr. Cap. stk. \$300,000. Iron, zinc ore (developing). Wythe Rv. 523. Leesville Campbell Dingee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Hamner, barytes. Shaft, 1,500 tons: steam. Sta. 622. Albert Withers, supt. Ry. Lynch's Sta. 622. Liberty Iron Co., Philadelphia Pa., 445 Drexel Bidg., Fifth and Chestnut sts. H. H. Yard, prest.; S. L. Gillen, seey, and treas.; M. M. Campbell, mgr. Cap. stk., \$500,000. Iron ore. Shaft, tunnel, slope, 25,000 tons; steam, water, horse; furnace, capacity 15,000 tons; steam, water, horse; furnace, capacity 15,000 tons. Liberty Furnace. Shenandoah Ry. Edinburg 42. Lowmoor Iron Co, of Virginia. A. S. Winslow, prest.; H. M. Bell, Seey.; Edward A. Low, treas.; Henry G. Merry, ngr. and supt. Cap. stk. \$300,000. Brown hematite. Shaft, tunnel, 55,000 tons; Steam. Lowmoor . Alleghany Ry. 132. Alleghany Iron Mountain Mining Co., Covington, Va. R. L. Parrish, prest.; Frank Lyman, seey, and freas.; John S. Ham, mgr. and supt. Cap. stk, \$30,000. Iron Mountain, brown hematite. Open cut, Mallow . . . Alleghany Ry, Iron Win, Station 24,500 tons. Frank Lyman, Covington, Va. Cap. \$100,000. Dolly Ann, brown hematite. Open cut, 25,000 tons. John S. Ham, supt. Smythe Marion 1ron Ore Co., New York, N. Y., 52 Broadway. P. S. Swain, prest.: Charles T. Darling, seey, and treas. John S. Apperson, mgr. Cap. stk. \$250,000. Carrier Valley, brown hematite, manganese. Open cut, shaft, 30,000 tons; steam. Marion... .... Ry. 523. Lonisa Arminius Copper Mines Co., New York, N. Y., 71 Wall st. Sol. Hexter, prest, and treas.; Alex. Griterman, secy.; Win, H. Adanos, mgr. Cap. stk. \$500,000. Arminius, pyrites. Shaft, 35,000 tons; steam. Henry Mineral City M. Bancroft, supt. Washington Pyrite Co., Washington, D. C., 918 F st. Eugene B. Payne, prest.; Walter L. Bishop, seey, and supt.; C. F. Griffing, treas, and mgr. Cap. stk. \$500,000. Goodwin, Hunter, pyrites. Shaft; steam (developing).

Smyth Joseph L. Scott. Spring, brown hematite, manganese. Open pit; hand.

John M. Williams. Sugar Hill, brown hematite, manganese. Open cut; hand. Pittsylvania Dingee, Weinman & Co., Lynchburg, Va. Cap. \$50,000. Parker, barytes. Shaft, 1,500 tons: steam. C. E. Woodly, supt.

### LEAD AND ZINC

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LO ATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Austinville.

Wythe Wythe Lead & Zine Mine Co. Maj. D. P. Graham, prest.; Dr. R. W. Sanders, seey.; John C. Raper, treas., mgr. and supt. Cap. 8tk, 860,000. Wythe, lead, Zine. Shaft, tunnel, open pit, 5,000 tons; electricity, water; furnae.

Bertha., Ry, 523. Sugar Grove Ry, Marjon 523.

Wythe Bertha Zine & Mineral Co., New York, N. V., 33 Wall st. B. S. Clark, prest.; George M. Holstein, auditor: C. H. Bosher, treas.; J. V. Johnston, ngr. Cap. 8tk. \$3,509,000. Bertha, zinc. Shaft, tunnel, 16,000 tons steam; formace. Wm. H. Case, supt. 8myth Rye Valley Mining Co., Baltimore, Md. M. R. Creighton, prest.; Wm. C. Carman, secy.; Louis Cassard jr., treas.; Hampton Woods, ngr. and supt. Cap. stk. \$500,000. Lead. Slope, steam.

# MANGANESE

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Comeany or Individual, Location of Peincipal Office, Names of Officers, Capital Stock. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Houston Mines, Botetourt Penn Mangan (se Co., Pittsburg, Pa., 35 Fifth av. William White jr., prest.; W. R. Cuthlent, seey, and Ry. Nace 523.

Houston: Shaft; steam: R. S. Neal, supt.

Marion

Smyth Staleys Creek Manganese & Iron Co. A. C. Cummings, prest.; John S. Apperson, seey, and treas.; John M. Preston, mgr. Cap. stk. \$45,000. Carrier Valley, Pand Mount, brown hematite, manganese. Open

# MICA

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF PRODUCT, KIND OF MINE ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Amelia C. H. Ry, 622.

Amella Richmond Mica Co., Richmond, Va., 1000 Main st. J. L. Williams, prest.: E. J. Willis, secy. and treas.; John G. Skelton, mgr. - Cap. stk. 800,000. Champion. Shaft, tunnels: steam; mill. J. Gouza, supt.

# MINERAL PAINT

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNIAL OUTFUT IN TOSS OF 2000 FOUNDS, KIND OF POWER FASED, PAIN MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Stanleyton . P Ry, Marksville 523.

Page Oxford Ochre Co., New York City, 24 Liberty st. C. S. Foote, prest., R. M. Bennett, secy, and treas., C. Foote, mgr: Cap. stk, \$25,000. Oxford Mines, yellow ocher. Shaft, tunnel and pit, 700 tons, steam.

# PHOSPHATE

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME AND KIND OF MINE, ANNIAL OUTPUT IN TONS OF 2,900 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Malvern Hill Ry, Elko 132,

Henrico Malvern Hill Marl & Phosphafe Co., New York, N. Y., 216 Greenwich st. H. J. S. Hall, prest., F. C. Gelger, seey, L. Hawley, treas, C. H. Bond, mgr. Cap. 8tk, \$20,500. Marl phosphate. Stope, open pit, 7,500 tons; steam, hydraulic.

### SALT

LOCATION OF MINE
OR WELL,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL. LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Saltville Washington Holston Salt & Plaster Co. George W. Palmer, prest, and treas.; Charles F. Palmer, seey, and mgr. Cap. stk, \$1,000,000. Saltville, coarse and common. Wells, 450 (ons.; steam. Ry. 523.

Marion ... Ry, 523,

# SLATE

	101 144 K A A 3
LOCATION OF QUARRY, RAILWAYS, WATER ROUTES AND SHIPPINO POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF QUARRY, KIND OF SLATE, KIND OF QUARRY, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF QUARRY SUPERINTENDENT.
ArvoniaBuckingham	Big Quarry Slate Co. J. R. Williams, prest.; E. R. Williams, treas., gen. mgr. and supt. Cap. stk. \$50,000.
Ry. 132.	Big Quarry. Open pit; steam.  J. R. Williams & Co. Cap. \$200,000. Old Nicholas. Open pit, 9,500 tons; steam; mill.
Keswick Albemarle	W. B. Lupton & Co., Pittsburg, Pa., 1012 Penn av. Keswick. Open pit; steam. E. U. Bragdon, supt.
Ry. 132.  Ore Bank Buckingham Ry. Arvonia 132.	J. J. Roberts & Co. Open pit, 2,000 tons; steam.
	J. C. Senger. Open pit; steam, horse (developing).
Snowden Amherst Ry, 132.	Williams Bros, Slate Co. J. W. Watts, prest.; Hugh Williams, secy.; J. Gordon Payne, treas.; W. E. Williams, ngr. and supt. Cap. stk. \$40,000. Open pit; steam (developing).
	SOAPSTONE
LOCATION OF MINE OR BANE, RAILWAYS, WATER ROUTES, AND SHIPPING POINT. TOWN AND COUNTY.	Namf of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine or Bane, Annual Outfut in Tons of 2,000 Pounds, Kind of Power Usld, Etc., and Name of Superintendent.
Clifton Station Fairfax Ry, 622.	Old Dominion Stone Co., Philadelphia, Pa., 1113 Arch st. D. Z. Evans, prest, and treas.; D. Z. Evans jr., seey.; I. H. Evans, mgr. Cap. stk. 850,000. Old Dominion, soapstone and Sandstone. Open pit, 1,000 tons; steam; mill. John B. Hart, supt.
ST	ONE, MARBLE, GRANITE AND ONYX
LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUAIRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERLINS AND
TOWN AND COUNTY.	CAPACITY, ETC., AND NAME OF MINE SUFERINTENDENT.
Buchanan Botetourt Ry, 132, 523.	George O. Houston, Roanoke, Va. B. M. Paine, mgr. Buchanan, limestone. 30,000 tons.
44	John Sexton. Cap. \$5,000. Buchanan, limestone. Open pit, 25,000 tons; steam; mill. T. D. Sexton, supt.
Christiansburg Montgomery Ry, 523,	Virginia Lime & Cement Co. A. A. Phlegar, prest.; M. C. Pelton, treas, and mgr. Cap. 8tk. \$10,000. Limestone. Open pit, 8,000 tons.
Churchwood Pulaski Ry. Belspring 523.	B. S. Price & Co. Limestone. Open pit; hand; mill.
Craigsville Augusta Ry. 132.	Coral Marble Co., Staunton, Va. R. P. Rell, mgr. Cap. 8tk. \$500,000. Marbledale, marble. Open pit, 500 tons; hand, steam; mill.
FincastleBotetourt Ry. Springwood 132,	Beekley Marble Development Co. J. H. H. Figgat, prest. Turner McDowell, seey.: James Godwin, treas.: Afred Beckley, mgr. Cap. stk. \$200,000. Beckley, lithographic stone, marble. Steam; marble mill (developing).
*	Fineastle Stone & Marble Co. C. M. Lunsford, prest.; C. H. Vines, secy.; Wm. B. Summon, treas. Cap. stk. \$100,000. Lithographic stone, marble. Slope, 500 tons; steam; stone and marble mills. W. Clements, supt.
11 44	S. F. Patterson. Limestone. Open pit; limekiln, capacity 30,000 brls.
	Virginia Black Marble Co. R. T. Herndon, prest.; W. M. Dulany, seey.; James Godwin, treas.; J. W. Clarkson, mgr. Cap. stk. \$300,000. Marble. Open pit; steam; mill. W. Clement, supt.
Fredricksbg Spottsylvania Ry. 601, 619.	Bridgewater & Forge Granite & Lumber Co. 1. B. Fickten, prest, and treas.; H. Von Schon, seey. and mgr. Cap. stk. \$100,000. Granite. Hand, electricity: mill.
Granite Chesterfield Ry, 622,	Middendorf & Donald, Richmond, Va., 132 and 134 Virginia st. Cap. stk. \$30,000. Granite. 7,000 fons; steam; mill.
Herndon, Fairfax Ry, 622,	Herndon Stone Co., Washington, D. C. Geo, W. Hunter, mgr. Sandstone. Open pit (developing).
Korah, Henrico (P. O. Richmond) Ry, 132.	Riehmond Granite Co., 911 Main st., P. O. Box 158. H. P. Binswanger, prest.; John Klemm, secy. and treas. Cap. stk. \$130,000. Granite. Open pit, 25,000 tons; steam, band.
Lowmoor Alleghany Ry, 132.	Lowmoor fron Co. A. S. Winslow, prest.; N. M. Bell, seey.; Edward A. Low, treas.; Henry Merry, mgr. Cap. stk. \$690,000. Low Moor, limestone. Tunnel, 48,000 tons; steam. J. E. Williams, supt.
LynchburgCampbell Ry, 523, 132.	dames M. Casey, Washington and Jefferson sts. Casey, limestone. 10,000 tons; horse, hand; mill. W. H. Hall, supt.
	Lynchburg Construction Co., 8t1 Mann st. Charles E. Heald, prest.; S. M. Williamson, seey, and treas.; R. Taylor Gleaves, mgr. Cap. stk. \$10,000 Amherst, gnelss and serpentine. Slope, open pit, 21,000 tons; steam, brose; niff. Robert Lackey, supt.
Manassas, Prince William Ry, 622,	John R. Tillett, P. O. Box 101. Stonewall, sandstone. Open pit, 7,000 tons; steam, horse, hand.

Manchester, Chesterfield Standard Granite Co., Riehmond, Va., 2310 W. Cary st. James Netherwood, prest.; H. F. Smith, treas., ngr. and supt. Cap. stk. \$15,000. Standard, granite. Open pit, 3,000 tons; steam.

Smyth Marion Mining & Marble Co., Richmond, Va., care City Bank. John S. Apperson, prest.; Edwin A. Palmer, seey, and treas. Cap. stk. \$10,000. Killinger, Scott and 2 others. Open pit (developing).

# THE MINING DIRECTORY—MINES.

# STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

COUNTY.  LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.  TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OCTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILINS AND CAFACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Nace Botetourt (P.O.Botetourt )Ry.523,	Roanoke Black Marble Co., Roanoke City, Va., Terry Bldg. B. L. Greider, prest.; H. H. Greider, secy.; Win, F. Winch, treas.; S. J. Reed, mgr. Cap. 8tk. \$100,000. Marble. Open pit; steam (developing).
Petersburg Dinwiddie Ry, 523, 575, 623,	Dr. D. W. Lassiter, 13 Tabb st. East View, granite. Slope; hand.
· · · ·	Petersburg Granite Quarrying Co., New York, N. V., 38 Wall st. Wm. E. Dibbell, prest.: Egerton Brown, secy.; J. O. Bowdish, treas. Cap. stk. \$55,000. Granite. Steam; mill.
Price's Forks Montgomery Ry, Christiansburg 523.	Stewart Price. Millstone. Open pit, 150 tons; hand.
	M. S. Price & Bro. Cap. 81,000. Millstone. Open pit, 50 tons; band.
Pulaski CityPulaski Ry. 523.	Miller & Warden, Cap, \$20,000. Peak Creek, sandstone. Open cut; hand, steam. J. K. Warden, supt.
Rocky Point . Botetourt Ry, 132.	McCormack Granite Co. E. W. Stevens, gen, mgr. McCormack, limestone. Open pit, 60,000 tons; steam; mill.
Waynesboro Augusta Ry, 132, 523.	Lithomar Milling Co., Alexandria, Va. A. G. Uhler, prest.; A. M. Gorman, seey, and gen. mgr.; George-Wise, freus. Cap. 8th, \$00,000. Lathographic stone, marble, ocher, slate. Water, steam, electrality. horse.
Winston Cufpeper Ry, 589.	L. D. Winston. Granite, sandstone.

# SULPHUR

	TION OF	MINE, R ROUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
AND S	HIPPING	POINT.	Name of Mine, Kind of Product, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind
Tows	AND	COUNTY.	OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Sulphur Mines Ry, 132.

Louisa Sulphur Mines Co, of Virginia, Richmond, Va. Win, G. Crenshaw, prest.; Win, G. Crenshaw jr., v.-prest; S. D. Crenshaw, seey, and treas. J. C. Petty, mgr. and supt. Cap. 8tk, 850,000. Pyrites, Shaft; stem.

# TIN LOCATION OF MINE, RAILWAYS WAFER ROTTES. SAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

AND SHIPPING POINT.	NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.
Town and County	
Berry's . Clarke V	urginia Tin Minling & Smelting Co., Winchester, Va. Win. H. Sale, prest., Charles F. Nelson, seey, and treas. J. W. Pascoe mer and sunt. Can sik stood near Shaft, onen int. hand alevelouing.

SEE ALSO SUPPLEMENTARY LIST

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

Black Diamond.

AND COUNTY.

# WASHINGTON

# COAL-BITUMINOUS

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

King Black Diamond Coal Mining Co., San Francisco, Cal., 450 Main st. P. B. Cornwall, prest. and mgr. Geo.

Ry. 179.	Staacke, seey.; Bank of California, treas. Cap. stk. \$5,000,000. Black Diamond. Slope, 132,000 tons; steam and electricity. Morgan Morgans, supt.
Black River King Ry, Black River June- tion 563.	Black River Coal & Transportation Co., Seattle, Wash., cor, Commercial and Main sts. L. M. Garrison, prest.; N. H. Martin, seey, and treas.; W. B. Spencer, mgr. Cap. stk, \$30,000. Black River. Slope, land (developing). Wm. R. Reese, sppt.
Blue Canyon Whatcom Ry. New Whatcom 56.	Blue Canyon Coal Mining Co., New Whatcom, Wash. M. E. Bowns, prest.: John T. Murphy, vprest.: J. H. Bloedel, seey. Cap. stk. \$500,000. Blue Canyon. Slope; steam; washer (developing). Wm. J. Watkins, supt.
Bucoda Thurston Ry. 529.	North-Western Coal & Transportation Co., Portland, Ore. Samuel Coulter, prest.; W. W. Humes, secy.; C. W. Coulter, mgr. Cap. stk. \$250,000. Bucoda. Slope, 12,000 tons; Steam and horse. Thos. Ismay, supt.
Burnett Pierce Ry, 529	South Prairie Coal Co., San Francisco, Cal., 308 California St. John M. Whitworth, prest.; T. H. Henderston, seey, and treas.; C. H.Burnett, mgr. and supt. Cap. Stk. \$200,000. South Prairie. Slope, 55,000 tons; steam.
Carbonado Pierce Ry, Douty 529.	Carbon Hill Coal Co., San Francisco, Cal., cor. Fourth and Townsend sts. Charles F. Crocker, prest.; Frank S. Douty, seey, and treas. Cap. stk. \$200,000. Carbon Hill. Tunnels, 175,000 tons; steam and water; washer. D. T. Davies, supt.
Castle Rock Cowhtz Ry, 529.	Castle Rock Mining Co., Portland, Ore., 66 N. Second st. L. Nicolai, prest.; J. A. Newell, secy. and supt.; A. W. Ocobock, treas. Castle Rock. Tunnel; steam.
Cokedale King (P. O. Franklin) Ry. 179.	Green River Coal & Coke Co., Seattle, Wash, Burke Bldg. John H. Bryant, prest; John Craig, seey.; A. S. Dunham, treas.; Wesley Wilson, mgr. Cap. 8tk, \$1,000,000. Green River. Slope; steam; breaker, washer, 200 coke ovens under construction (developing). Geo. A. Brooke, supt.
Durham King Ry, 529.	Pacific Investment Co., San Francisco, Cal., 316 California st. Charles McCullouch, prest.; Alexander H. Small, secy.; Robert Young, mgr. Durham. Tunnels; steam and horse,
Franklin King Ry. 179.	Oregon Improvement Co., Scattle, Wash., 301 Burke Bldg. W. H. Starbuck, prest.: W. T. Wallace, seey.; C. B. Tedeastle, treas.; C. J. Smith, mgr. Franklin. Slope, 120,000 tons; steam; breaker. T. B. Corey, supt.
Gilman King (P. O. Olney) Ry. 665.	Seattle Coal & Iron Co., Scattle, Wash., Barke Bldg., John H. Bryant, prest.; John Craig, seey.; A. S. Dunham, treas.; Wesley Wilson, mgr., Cap. stk. \$5,000,000. Gilman. Slope and tunnels, II2,000 tons; steam. J. L. Parker, supt.
Jennings Skagit P.O. and Ry. Sedro 25s, 665.	Skagit Coal & Transportation Co., Fairhaven, Wash. C. H. Larrabee, prest. Fairhaven. Tunnel, 6,000 tons; steam; coke oven. R. Jennings, supt.
New Castle King Ry, 179.	<ul> <li>Oregon Improvement Co., Scattle, Wash., 301 Burke Bldg. W. H. Starbuck, prest.; W. T. Wallace, seey.;</li> <li>C. B. Tedeastle, treas; C. J. Smith, mgr. Coal Creek. Slope, 200,000 tons; steam; breaker. T. B. Corey, supt.</li> </ul>
Niblock MineKing (P.O. Snoqualmie) Ry, 529.	Snoqualmic Coal & Coke Co., Tacoma, Wash, 607 Fidelity Bidg. A. M. Cannon, prest, and treas.; C. B. Niblock, Secy. and mgr. Cap. stk. \$1,000,000. Niblock. Tunnel, 159,000 tons; gravity; washer Andrew Stephenson, supt.
Palmer King Ry. 529.	Green River Coal & Coke Co., Seattle, Wash., Barke Bldg. J. H. Bryant, prest.; A. S. Dunham, vprest.; J. Craig, seey.; J. E. Cox, treas.; W. Wilson, mgr. Cap. 8tk. \$1,000,000. Green River. Shaft and slope: steam (developing). W.J. P. Williams, supt.
Pittsburg Pierce (No P. O.) Ry, 529.	Acme Coal Co., Tacoma, Wash. C. B. Niblock, prest.; A. L. Horner, vprest.; F. M. Wade, treas.; S. J. Maxwell, secy. Cap. sfk. \$45,000. Acme. Tunnel, 50,000 tons. T. W. De Lane, supt.
Rocky Ridge Whatcom (P. O. Silver Beach) Ry. 56, 665.	Rocky Ridge Coal Co., Whateom, Wash. Bellingham Hotel. H. A. Moore, prest and mgr.; C. C. Hisson, seey.; Paget Sound Loan & Trust Co., treas. Cap. stk. \$500,000. Rocky Ridge. Slope; steam (developing). R. Blarkwell, supt.
Tacoma Pierce Ry. 529, 552, 776.	Connellsville Coal & Coke Co., cor. Twenty-third and Adams. C. W. Griggs, prest.; Geo. Browne, seey.; A. G. Foster, treas. Cap. stk. \$500,000. Connellsville (developing).
WilkesonPierce Ry, 529.	Tacoma Coal Co., Tacoma, Wash., Hotel Fife, Room 1. A. C. Smith, prest.; Geo. O. Kelly, seey. Capstk., \$1,000,000. Tacoma. Slope, 65,000 tons; steam; breaker, washer, 30 coke ovens, \$6,000 tons.], I. M. Kelley, supt.
. "	Wilkeson Coal & Coke Co., Tacoma, Wash., Twenty-third and Adams sis. Henry Hewitt, prest.; P. D. Norton, seey, and treas; Hugh White, mgr. Cap. et al., \$25,000, Nos. 1, 2, 3 and 4. Tunnel, 150,000 tons; steam; breaker, washer, 75 coke ovens. P. C. Forrester, supt.

# GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE. KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

. Skagit | Ruby & State Creek Placer Mining Co. | E. S. Dodge, prest.; Benjamin Goodwin, seey.; Geo. W. Randall, treas.; M. A. Tullock, ngr. and supt. | Cap. stk. \$250,000. | Gold. | Placer; water. Arlington Rv. 665.

Snohomish Stillaquamish Mining Co. John Weiersmiller, prest.; Chas. Weilman, scey.; Vie. Thorp. treas.; John Bentner, mgr. Cap. stk. \$2,000,000. Congo and bomingo, gold and silver. Tunnel; refractory (developing).

GOLD AND SILVER (CONTINUED)		
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPINO POINT, TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Toks of 200 Pounds, Kind of Power Used, Stamp Mills, Etc., and Name of Mine Superintendent.	
Bossburg Stevens Ry. Young America 635,	Pittwood & Burbridge (lessees). Young America and Bonanza, silver and lead. Tunnel, 16,000 tons; refractory; hand.	
ChelanOkanogan Ry, 552.	Cascade Range Mining Co., Waterville, Wash. A. E. Case, prest.; R. W. Starr, secy.; A. T. Greene, treas.; A. H. Murdock, mgr. Cap. stk. \$1.500,000. Fourteen claims, gold and silver. Hand olevelopingt. W. R. Robbison, supt.	
ChewelahStevens Ry. 695.	Coons, Shaner & Thomson, Spokane, Wash., 207 Rookery. Eagle and Eureka, silver and lead. Shaft: free and refractory, steam. A. R. Thomson, supt.	
Cle Elum Kittitass Ry. 529.	Culver Gold Mining Co., Scattle, Wash., 519, 520, 521 Bailey Bidg. Henry Bash, prest.; Edwin Hall Warner, sery.; Ezra W. Clark, freus.; Joseph L. Warner, mgr. and supt. Gap. 8tk, \$20,000. Culver, gold. Tunnel; free and refractory; steam; to stamps and concentrator.	
Colville Stevens Ry, 695.	Dead Medicine Mining Co., Spokane, Wash. George Turner, prest.; I. N. Peyton, seey., treas, and supt. Cap. stk. \$2,500,000. Dead Medicine, silver and lead. Shaft and tunnel; free and refractory; steam.	
· · · ·	Old Dominion Mining Co., Spokane, Wash. W. R. Newport, prest, and mgr.; S. Oppenheiner, secy.; E. J. Dyer, freas. Cap. 8tk, \$500,000. Old Dominion, silver and lead. Shafts and tunnels, 10,000 fons; free; steam. J. Hanly, supt.	
	Rustler Mining Co., Spokane, Wash. H. E. Houghton, prest.; I. N. Peyton, seey, and treas. Cap. 8tk. \$250,000. Rustler, silver. Shaft; refractory.	
Conconully Okanogan Ry, 529.	Bridgeport Mining & Milling Co., Bridgeport, Conn., ear. Gold and Middle 8ts. Frank L. Rodgers, prest.; E. E. Wheeler, seey, and freas; E. F. Wheeler, mgr. and supt. Cap. stk, Saanlow. Thompson, Nevada, Montana and Columbia, gold and silver. Shaft and (nume); free; hand and horse,	
Conconully, Okanogan Ry, Coulee Uity 529 (100 miles).	A. C. Burnham. Summit, gold and silver. Tunnel, tree; hand.	
**	Washington Central Minling & Rodnetion Co. L. Irwin Baidwin, prest.: H. A. Wilder, seey., treas. and mgr. Cap. stk. \$50,000. Gold King, Reno. Monte Cristo and Big Bonanza, gold, silver, copper. Tunnel, 20000 tons: refractory; water: in stamps. Theo. Patterson, spil.	
Ellensburg Kittitass Ry, 529,	Columbia Gold Mining Co., cor. Fourth and Pearl 8ts. W. R. Abrams, prest, and treas.; L. C. Pope, seey.; M. S. Smith, mgr. Cap. 8tk, \$50,000,000. Oakbar, gold. Placer; water (developing).	
GalenaSnohomish Ry, 293.	Western Washington Mining & Manufacturing Co., Tacoma, Wash., 1001 Eleventh st. R. G. Brown, prest., M. H. Nichols, seey, and treas. C. A. Brown, agr., and supt. Cap. stk. \$100,000. Bueno Lode, gold, silver and copper. Tunnel; refractory; water developing.	
GoldenOkanogan Ry, Wilbur 529.	Wanniert Lake Milling & Mining Co., Spokane, Wash. Joseph Hamaner, prest.; N. D. Hamaner, seey.; H. W. Holly, treas., F. W. Wegner, ngr. and supt. Cap. stk, \$100,000. Spokane and others, gold and sliver. 10,000 tons, free, steam, 10 stamps, 2 concentrators.	
Kettle Falls, Stevens Ry, 695 (31 <sub>2</sub> miles).	Silver Queen Mining Co. John F. Sherwood, prest., mgr, and supt. James J. Budd, seey.; C. H. Nelson, treas. Cap. stk. \$32,000. Silver Queen, silver and lead. Shafts, free; hand.	
Liberty Kittitass Ry, Ellensburg 529,	Donahue & Fairfleld Muning & Smelling Co., Scattle, Wash., Balley Bidg. John Fairfleld, prest.: Daniel T. Cross, seey, and Treas. William Donahue, mgr. and Smt. Cap. stk. \$500,000. Marion, Manistee. Old Gold and/others, gold. Tounde, placer; free and refractory, steam.	
miles).	Cowherd & Western. Tvanhoe Group, gold and silver. 2,000 tons, free and refractory; steam; mill,	
	Empire Mining Co., Tacoma, Wash., 1301 Raibroad st. J. D. Caughran, prest.; P. A. Panlson, seev.; Merchants Bank, treas.; Capt. P. Curtz, mgr. and supt. Cap. stk. \$1,000,000. Empire Group, gold. Shafts and numers, free, electricity.	
	Everett Gold Minlag & Milling Co., Tacoma, Wash., Fidelity Bldg. John F. Phmmer, prest., Leonard Howarth, seey, and treas.; F. W. Dunn, mgr. Cap. stk. \$1,000,000. Black Bear and War Eagle, gold. Shaft, 55,000 fons; free; water; 5-stamp mill. John Ross jr., sapt.	
11	Gold Fluch Mining Co., Scattle, Wash. Fred E. Soudel, prest.; J. S. Schultz, seey, and treas; W. B. Moore, mgr. and supt. Cap. stk. 820,000. Gold Finch, gold. Shaft and funnel, free; electricity.	
	Keystone Mining & Milling Co., Spokane, Wash., cor. Riverside and Howard sts. P. T. Murray, prest.; M. H. White, seey.; A. C. Libby, freus. Cap. stk. 8,100,00a. Diviziderro and Keystone, gold and silver. Shaft, free, refractory, hand. William Harris, supt.	
Loop Loop Okanogan Ry, Wilbur 529.	First Thought Silver Mining Co., Portland, Ore., 5 y Morrison St. Jonathan Bourne jr., prest.; Herbert E. Thoupson, seey.; Portland Savings Bank, treas. Cap. 8tk, \$0,000,000. First Thought, silver. Tunnels: water.	
MeCallum Kittitass Ry, Ellensburg 529.	Gold Nugget Mining Co., Port Townsend, Wash. William Payne, prest., Walter Bowen, secy, and treas.; B. C. Pilcher, ugr. and supt. Cap. stk. \$70,000. Black, gold. Open pit, placer; water.	
** **	Swank Creek Mining Co., Tacoma, Wash., 113 Thirteenth st. W. R. Andrews, prest, and mgr.; W. W. Hartley, seey. Cap. stk. \$10,000. Gold. Placer, water. Geo. B. Seely, supt.	
Marcus Stevens Ry, Bonanza 695,	Consolidated Bonanza Mining & Smelting Co., Spokane, Wash, R. S. Oakley, prest, and mgr., C. H. Armstrong, seey, and supt.; S. Amsler, treas. Cap. stk. \$1,000,000. Bonanza and 5 other claims, silver and lead, open pit and shaft, 21,001/1016s; free, steam, concentrator, 3,124 tons.	
Monte Cristo., Snohomish (No.P. O.)(Ry, 776.	Monte Cristo Mining Co., Seattle, Wash., 617 and 648 Bailey Bldg. – Jos. L. Colby, prest, and treas.; Chas. F. Rand, secy.; Win. C. Buller, angr. Cap. stk. 81,000,000. Two claims, silver and lead. Tunnels, refractory; water and electricity developing.	
	Pride of the Mountains Mining Co., Seattle, Wash., 648 Bailey Bldg., Jos. L. Colby, prest, and treas,; Chas. F. Rand, seex., Win. C. Buller, ngr., and supt. Cap., 848, 840,000,000. Pride of the Mountains, 289, Calore and Pride of the Woods, silver and lead. Tunnel, refractory, water (pix-cumion-ned).	
	Rainy Mhiling Co., Cleveland, Ohio, Perry Payne Bldg., Jos. L. Colby, prest.; H. C. Henry, sery.; A. L. Dickerman, treas.; Chas. F. Rand, figr. Cap. 8tk \$5,000,000. Rainy, gold and sliver. Tunnel; steam and water. Wm. C. Buffer, supl.	
(Intime II	Color Delica Delica del color del co	

Orting . . . . . . Perce Sultan Mining & Prospecting Co. Sultan, gold and silver. Refractory developing . . . Mine in Okanogan Ry, 529.

# GOLD AND SILVER (CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,00 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY,	
Port Angeles Clallam Ry, 529, 552,	Hurricane Hill Mining Co. F. G. Jones, prest, and supt.; L. R. Cole, seey.; J. E. Becker, treas.; J. C. Burk, mgr. Cap. stk, \$30,000. Great Western, silver and copper. Shaft and tunnel; free (developing).
Porter	Porter Creek Consolidated Mining Co. S. S. Ford, prest.; S. R. Ford, seey.; J. W. Ray, treas.; Henry Marshall, mgr. and supt. Cap. stk. \$1,000,000. Porter Creek, gold and silver. Open pit; refractory; water.
Ruby Okanogan Ry, Sauk 666 (30 miles).	Ruby Placer Mining Co., Anacortes, Wash. G. K. Hiatt, prest.; J. M. Moore, seey., treas, and mgr. Cap. stk. \$200,000. Anacortes and Dandy, gold. Placer; water. McCullough, supt.
Silverton Snohomish Ry. 529.	Hall Molique & Co. Anacortes, silver. Tunnel.
** **	Monte Cristo Development Co., Everett, Wash., Pacific av. W. F. Brown, prest. and mgr.; F. O. Coe, seey.; G. I. Brown, treas. Cap. stk. \$50,000. Eighteen elaims, gold and silver (developing). R. M. Burnett, supt.
Snohomish . Snohomish Ry, 552, 665.	Gold Eagle Mining & Milling Co., Tacoma, Wash. Stephen Holbrook, prest.; W. E. Hacker, seey, and treas.; Wm. J. Caplin, jugz., and supt. Cap. stk. \$3,000,000. Seven elaims, silver. Shaft, tunnel and slope; free; water (developing).
Snoqualmie King Ry. 665 (16 miles).	Silver King Mining Co., Seattle, Wash., Sullivan Bldg., Room 54. J. S. McLain, prest, and mgr.; Oliver F. Briggs, secy, and trons. Cap. stk. \$500,000. Silver King, gold, silver and lead. Shaft and tunnel; free; water and electricity (developing).
	IRON
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOWS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINEADED.
TOWN AND COUNTY.	
ValleyStevens Ry. 695.	Capital Mining Co., Seattle, Wash., P. O. Box 8a5. J. E. Porter, prest.; S. M. Allen, seey.; J. E. Houghton, treas, and supt. Cap. stk. \$399,090. Capital, linnonite. Tunnel and pit, 6,000 tons.
ST	ONE, MARBLE, GRANITE AND ONYX
Location of Mine or Quarry, Railways, Water Routes and Shipping Point,	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF FRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERLINS AND
TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.
Chnekanut Whateom Ry, 552.	Roeder & Roth, New Whateom, Wash., Roth Block, cor, Thirteenth and G sts. Cap. \$100,000. Chuckanut, sandstone. Open bit, 35,000 tons; steam; mill. Fred. Harksell, supt.
	Columbia Marble & Granite Co., Spokane, Wash., Hyde Block. Samuel Donglas, prest.; J. W. Douglas, scey. Cap. stk, \$500,000. Marble (developing).
	Smith & Green, Cap, \$20,000. Sherwood City, sandstone. Open pit; steam and water; mill. Wells Green, supt.
Tenino Thurston Ry, 529.	Eureka Sand Stone Co., Tacoma, Wash., cor. Thirteenth st. and Pacific av. Arthur McMullen, prest, and mgr.; F. M. Talbot, seey. and treas. Eureka, sandstone. Open pit, 48,000 tons; steam; mill.
	Washington Decorative Marble Co., Spokane, Wash. John Rigby, prest., mgr. and supt. Thos. H. Cavanaugh, seey.; Jacob Hoover, treas. Cap. stk. \$250,000. Ophir, onyx, marble and granife. Open pit; stemn.
Wenatchee Kittitass Ry. Ellensburg 529.	J. C. Steele (local), Tacoma, Wash., 202 Chamber of Commerce. Washington, onyx. Open pit.

Wilkeson . . . Pierce Mitchell & Smith, Tacoma, Wash., 1340 Pacific av. Cap. \$20,000. Wilkeson, sandstone. Open pit, 30,000 tons; hand. Joseph T. Mitchell, supt.

SEE ALSO SUPPLEMENTARY LIST

Whatcom, N. C. Hadley, Schome, sandstone, Open pit; hand, Ry, 56, 665.

# WEST VIRGINIA

# BROMYRITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. Town AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF DIER, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTEEDENT.

Elkhorn Ry, 523.

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.  NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOC XAME AND KIND OF MINE, ANNUAL OUTPUT IN TOSNS OF 2,000 POUNDS, KIND OF POWER USED, COAL BITUMINOUS  NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICER, NAMES OF OFFICERS, CAPITAL STOC COAL BITUMINOUS	
LOCATION OF MINE.  RAILWAYS, WATER ROTTES AND SHIPPING POINT.  NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCKED AND KIND OF MINE, ANNIAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, COAL BERKERS, CORE OVERS, AND NAME OF MINE SUPERINTENDENT.	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.  NAME OF COMPANY OR INDIVIDIAL, LOCATION OF PHINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK  NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,  COAL BREAKERS, WASTERS, CORE OVERS, AND NAME OF MINE SUPPRINTENDENT.	
	E. F.
TOWN AND COUNTY.	Е. Г.
Acme Kanawha Stevens Coal Co. F. L. Garrison, mgr. Cap. \$150,000. Acme, Keystone. Drifts, 200,000 tons, Ry. Coalburg 151, 3420. Stevens, supt.	
AlgoniaMcDowell Arlington Coal & Coke Co., Lynchburg, Va. T. W. Gillinn, prest.; J. R. Gillinn, scey, and treas.; J Johnson, mgr. Cap. 8tk. 850,000.   Developing.)	ames
Austen Preston Austen Coal & Coke Co. Charles Jessop, mgr. Austen. Open pit; horse, hand. Ry. 42.	
Bancroft Putnam Kanawha & Lake Eric Coal Co. Cap. \$30,000. Bancroft. Drift, 25,000 tons; horse. M. P. Francis, sa Ry, 344.	pt.
Caperton	stk. uson,
Claremont Fayette Beechwood Coal & Coke Co. A. L. Benry, prest.; E. W. Bridge, secy.; John D. Campbell, treas.; Benry, mgr., Cap. stk. \$45,000. Beechwood, Keystone. Open pil, 140,000 tons; horse; 31 coke e capacity 12,000 tons. Wm. Hunter, supt.	C. C. vens,
Clarksburg. Harrison Central West Virginia Coal & Coke Co. M. L. Hutchinson, prest.; M. D. Post, secy, and treas.; 1 Ry. 42, 465, 800. Post, mgr. Cap. 8tk. \$50,000. Druft; steam (developing.)	ra C.
<ol> <li> "Despard Gas Coal Co., Baltimore, Md., 44 S. St. Charles st. F. Mayer, prest; A. H. Heet, seey. Carroll, treas. Cap. stk. 8240,000. Despard No. 2. Tunnel, 45,000 tons; horse, hand; 18 coke a capacity 75,000 tons. Mard Lewiss. supt.</li> </ol>	S. S. vens.
Clements Marion (P.O.Seottdale Ry. 42. Hutchinson Bros. & Hlmrod. Cap. 85,000, Linden. Drift, 40,000 tons; horse; 50 coke ovens, capacity tons. D. B. Brooks, supt.	25,(nn)
"Pool Coal & Coke Co., Plttsburg, Pa., 93 Fourth av. John Robinsteen, prest.; C. W. Pool, seey., trea mgr. Cap. stk. §500,000. Clements. Drift; steam; 50 coke ovens (developing). D. B. Brooks, su	s and
Clitton Mason Clifton Salt & Bromine Co. George Clifton, propr. Clifton. Tunnel, 16,000 tons; horse. The Middleton, supt.	omas
" Hysell & Edwards, Middleport, Ohio. Sterling. Open pit, 3,500 tons; hand. W. E. Edwards, supt.	
Coalburg Kanawha Robinson Coal Co. John A. Robinson, prest.; Neil Robinson, secy, and treas.; Arthur Robinson, Ry, 139, 342. Cap. stk. \$50,300. Coalburg. Tunnel; horse.	
Coopers Mercer Mill Creek Coal & Coke Co. Wm. Beary, prest.; T. H. Cooper, seey.; John Cooper, treas, and mgr. sk. \$25,000. Stirling. Bryan Bennen, supt.	Cap. tons.
Corinth Preston Oakland Coal & Coke Co., Baltimore, Md., 21 S. Gay st., Jacob H. Taylor, prest.; E. D. Hoffman, Charles J. Taylor, treas, Robert I. Anderson, ingr. and supt. Cap. stk. \$500,000. Oakland. Ti 100,000 tons; horse, steam; 35 coke ovens, capacity 25,000 fons.	secy.; nnel,
" Snowy Creek Coal & Coke Co. Wm. T. Gates, prest.; G. T. Plummer, seey.; George H. Sharp, t "David Williamson, mgr. Cap. stk. \$1,000,000. Slope; steam developing."	reas.;
Crown II 7 Kanawha Belmont Coal Co. Cap. \$25,000. Belmont. Tunnel, 70,000 tons; horse, steam. T. E. Embleton, supt. Ry, 132.	
" G. W. Champ, Cap. \$20,000. Champion. Tunnel; horse. John Barrister, supt.	
<ul> <li>New York &amp; West Virginia Coul &amp; Iron Co., New York, N. Y., 48 Broadway. Joseph Hayes, prest.;</li> <li>S. Lockwood, seey, and trens.; Brewer Smith, mgr, and supt. Cap. sfk. \$500,000. Crown Hill. nel. 20,000 fons; horse.</li> </ul>	John Tun-
Dunlow . Wayne Dunlow Coal Co. Frederick J. Amweg, prest.; Edward C. Collins, secy.; Edward J. Collins, treas gen. mgr. Cap. stk. 850,000. Open pit; horse (developing). Thomas Nichol, supt.	, and
Eagle Fayette Wyant Coal & Coke Co. Wm. Wyant, prest.; Thomas Wharton, seey. Cap. stk. \$100,000. Eagle, Ry. Frederick 432. mond. Open pit, 125,000 tons; horse; 54 coke ovens, capacity 24,000 tons.	Dia-
Eastbank Kanawha Eastbank Coal & Coke Co. Stuart M. Buck, prest.; G. R. Buck, seey, and treas.; J. W. Wilson, mgi Ry, 342a, 432. supt. Eastbank. Tunnel, 30,000 tons; horse; 42 coke ovens, capacity 3,600 tons.	and
Edgewater Ry, 132. Fayette Carver Bros. Cap. \$150,000. Edgewater. Open pit, 100,000 tons; gravity. Enoch Carver, supt.	
Elk Garden Mineral West Virginia Central & Pattsburg Railway Co., Baltimore, Md. H. G. Davis, prest.; F. W. I. Moore, and treas; T. B. Davis, mgr. Elk Garden and 6 others. Open pit, 400,000 tons, steam, horse, Rawlings, supt.	seey. A. C.

McDowell Crozer Coal & Coke Co., Upland, Pa. Samuel A. Crozer, prest.: Francis E. Weston, secy.: Edward Crozer, treas.; Wm. J. Harris, mgr. Tunnel; steam: 250 coke ovens.

Elmo. .... Rv. 132.

LOCATION OF MINE.

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

COUNTY

Fayette W.

Burke, supt.

# COAL-BITUMINOUS (CONTINUED)

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

A. Burke Coal Co., Staunton, Va. W. A. Burke, mgr. Elmo. Tunnel, 40,000 tons; horse. Ashby

Fairmont Marion Ry, 42, 465.	Central Gas, Coal & Coke Mining Co. O. Jackson, propr. Cap. \$25,000. Central. Open pit, 20,000 tons; horse; 16 coke ovens, capacity 7,000 tons. J. Sanas Jackson, supt.
	Gaston Gas Coal Co. James O. Watson, prest, and mgr.; John A. Boyee, seey, and treas. Cap. stk. \$100,000. Gaston. Drift, 135,000 tons; steam, horse, electricity; breaker, washer, 60 coke ovens, capacity 23,450 funs. S. L. Watson, supt.
11	Newburg Orrell Coal & Coke Co., Baltimore, Md., 33 S. Gay st. J. H. Lee, prest. Palatine, Aurora, Open pit, 83,900 tons; horse, Morgan D. Orr, supt.
**	West Fairmont Coal & Coke Co. Charles Mackall, prest.; George De Bolt, seey.; J. E. Watson, treas, and mgr. West Fairmont. Shaft, 150,000 tons; steam; 36 coke ovens, capacity 8,000 tons. David Evans, supt.
Farmington Marion Ry. 42.	Pittsburgh Gas, Coal & Coke Co., Allegheny, Pa., 125 Sandusky st. John D. Davis, prest.; W. E. McMurray, seey.; W. E. Ross, treas. Cap. 8tk. \$250,000. Farmington. Shaft.
Farnum	West Fork Coal & Coke Co. R. L. Martin, prest.; Paul Farmin, seey, and treas. Cap.stk. \$25,000. West Fork. Drift, 90,000 tons; horse; 30 coke ovens, capacity 27,000 tons. W. C. Reynolds, supt.
Fire Creek Fayette Ry. 132.	Fire Creek Coal & Coke Co. M. Erskine Miller, prest., secy, and treas.; G. C. H. Caperton, mgr, and supt. Cap. stk. \$100,000. Fire Creek. Tunnel, 100,000 tons; 9s coke ovens, capacity 36,000 tons.
Fleming Wayne Ry. 523.	Coaldale Mining & Manufacturing Co. Ed. Coates, prest.; W. Henning, seey.; H. J. Tondy, treas, and ingr. Cap. stk. \$25,000. Coaldale. Open pit; horse (developing). L. T. Cook, supt.
Freeman's Mercer Ry, 523.	Booth-Bowen Coal & Coke Co. Wm. Booth, prest.; J. P. Bowen, vprest, and supt.; Harry Bowen, secy.; James Booth, treas, and mgr. Cap. stk. \$75,000. Booth-Bowen. Tunnel, 198,174 tons; horse, steam; 91 coke ovens, 12,203 tons coke.
Glen Falls Harrison (P. O. Clarksburg) Ry, 460.	Glen Falls Coal & Coke Co. Edmund Morgan, prest.; E. F. Moore, secy. Cap. stk. \$150,000. Glen Falls.
Goodwill Mercer Ry, Bramwell 523.	Louisville Coal & Coke Co. R. T. Watts, prest.; Justus Collins, secy., treas, and mgr. Cap. stk. \$30,000, Louisville. Drift, 110,000 tons; steam, horse; 75 coke ovens, capacity 27,000 tons. Wm. Gamplin, supt.
Hartford City Mason Ry, 533, 534.	Juhling Coal Co, Wm. Juhling, prest, and nugr.; Oswald Juhling, secy, and treas. Cap. stk. \$25,000. California. Slope, 40,000 tons; steam. Richard Turnbull, supt.
	Liverpool Salf & Coal Co. A. E. Smith, prest, and treas.; Charles Clifton, seey, and mgr. Cap. stk. \$15,000. Tunnel, 15,000 tons; horse. Harry Hart, supt.
Kyle McDowell Ry, Elkhorn 523.	Elk Ridge Coal & Coke Co. J. H. Bramwell, prest.; C. W. Seaman, secy, and treas.; R. R. Goodrich, nugr. Cap. stk. \$50,000 (developing).
Landgraff McDowell Ry, 523.	Shawnee Coal & Coke Co., Bramwell, W. Va. A. A. Welch, prest.; J. C. Freeman, seey, and treas.; W. R. Graham, mgr. Cap. stk. \$100,000. Tunnel, steam. W. T. S. Jones, supt.

Malden

McDowell

P. O. and Ry. Elkhorn 523.

Mason.

Mason Hope Salf & Coal Co. Edward Edwards, prest.; D. C. Davis, secy. and treas. Cap. stk. \$60,700. Hope. Tunnel, 130,000 tons; horse. Henry Williams, supt. Ry. 533, 534.

Elkhorn Coal & Coke Co. E. Barlow, prest, and mgr.; A. D. Robertson, seey, and treas. Cap. 8tk. \$100,-000. Open pit, 100,000 tons; horse; 100 coke ovens, capacity 30,000 tons. J. A. Cardwell, supt. Maybenry. McDowell

Norfolk Coal & Coke Co. Stuart M. Buck, prest.; E. J. Hutchinson, v.-prest.; Joseph S. Clark, secy, and freas. Cap. stk. \$300,000. Lick Branch. Drift, 125,000 tons; steam; 120 coke ovens, capacity 40,000 tons. Norfolk Coal & Coke Co. Stuart M. Buck, prest., mgr. and supt.; J. S. Clark, secy, and treas. Cap. stk. \$300,000. Norfolk. Tunnel, 180,000 tons: horse, steam; 172 coke ovens, capacity 50,000 tons.

Marion J. N. Camden, prest.; J. E. Sands, seey, and treas.; B. D. Spilman, mgr. Cap. stk. \$2,000,000. Monongali, Slope, 450,000 tons: electricity; breaker, washer, 323 coke ovens, capacity 125,000 tons. M. G. Tyler, supt. Monongah Ry. 465.

Montana Mines. Marion Montana Conl & Coke Co. James O. Watson, prest.; George De Bolt, seey.; J. E. Watson, treas, and mgr. Cap. stk. \$200,000. Montana. Open pit, 188,356 tons; steam; washer, 158 coke ovens, capacity 75,000 tons. J. C. daskill, supt. Moundsville Ry. 42.

Marshall Moundsville Coal Co. J. C. Bardall, prest.; J. O. Brooks, seey, and mgr.; H. W. Hunter, treas. Cap. stk. \$50,000. Moundsville. Shaft, 80,000 tons; steam. John Brooks sr., supt. Mount Carbon

Mount Clare Ry. 800.

Nuttallburg... Ry. 132.

Fayette Great Kanawha Colliery Co., Ltd. Symington Macdonald, mgr. Cup. stk. \$500,000. Great Kanawha. Tunnel, 130,000 tons; horse; 65 coke ovens, capacity 25,000 tons. Harrison Mount Clare Coal Co. J. A. Crishp, prest, and mgr.; 1, H. Jones, secy.; Wm. I. Davison, treas. Cap. stk. \$24,000. Slope, tunnel, 40,000 tons; horse.

Fayette Nuttallburg Coal & Coke Co. Nuttallburg, Keency's Creek. 180,000 tons; hand; 70 coke ovens. W. H. Holland, supt.

McDowell Eureka Coal & Coke Co. R. H. T. Adams, prest.; Allen W. Talley, secy, and treas.; L. E. Tierney, mgr., v. Eikhorn Cap. 8tk, \$100,000. Enreka, Tunnel; steam.

Greenbrier Coal & Coke Co. Justus Collins, prest.; C. W. Jones, seey, and treas.; Hugh Jones, mgr. Cap. stk. \$100,000. Tunnel. Capacity, 100,000 tons; steam.

Opekiska.....Monongalia Acme Coal & Coke Co. Ry, 42, stk. \$60,000. Opekis ne Coal & Coke Co. E. Ryder, prest.; Frank Ehlen, seey, and treas.; C. E. Hutchinson, mgr. Cap. stk. \$60,000. Opekiska. Drift, 60,000 tons; horse; 20 coke ovens, capacity 10,000 tons. Wm. Hanson, supt.

Mineral Davis & Efkins Coal Co. T. B. Davis, prest.; W. T. Blackiston, seey., ingr. and supt.; H. G. Buxton, treas. Cap. 8tk. \$100,000. Window. Drift, 100,000 tons; steam. Cap. stk. \$100,000.

### COAL-BITUMINOUS (CONTINUED)

LOCAT	TION OF	MINE,
		R ROUTES
AND SI	HIPPING	POINT.
m		Corretmy

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name and Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Plymouth

Ry. 344.

Powellton

...Putnam Carver Coal Co., Edgewater, W. Va. John Carver, prest.; Enoch Carver, secy, and treas.; James Carver, mgr, and supt. Cap. stk. \$50,000. Plymouth. Tunnel, 75,000 tons; horse.

Ry, Handley 132, 342a. Powhatan

Mount Carbon Co., Ltd., London, Eng., 5 Capthalt Bldg. H. C. Newson, prest.; A. B. Seel, seey., Evan Powell, mer. Cap. 84k, \$500,000. Powellton. Tunnel, 150,000 tons; horse, breaker, 202 coke ovens, capacity 75,000 tons. W. A. Newman, supt.

Ry. 523. Quinnimont

McDowell Powhatan Coal & Coke Co. J. J. Tierney, prest.; Alfred D. Wolft, secy, and treas.; Lawrence E. Tierney, ingr. Cap. 8tk. 306,006. Fowhatan. Open pit and tunnel, 180,000 tons; steam and horse; tipple; 150 coke ovens, capacity 36,000 tons. James Hetherman, supt.

Rolfe Ry, Elkhorn 5

Fayette Quinnimont Coal & Iron Co. W. R. Wister, prest.; Charles Glipin jr., seey, and treas.; D. C. Boyce, mgr., Cap. sik. \$500,000. Quinnimont. Drift, 70,000 tons; steam; 100 coke ovens, capacity 29,000 tons. John McIntosh. supt.

Rush Run

McDowell Roanoke Coal & Coke Co., Roanoke, Va., Terry Bldg., J. B. Fishburne, prest.; A. D. Rice, seey, and treas.; 523. W. S. Conell, mgr. and supt. Cap. stk. \$50,000. Tunnel; horse; 10 coke ovens (developing). Fayette Brooklyn Coal Co. J. Fred. Effinger, prest.; John H. Howald, seey., W. P. Tams, treas.; F. Howald, nigr. Cap. stk, \$55,000. Finlow. Drift, 50,000 tons. John H. Bell, supt.

Red Ash Coal Co. J. Fred Effinger, prest. John H. Howald, seey.; W. P. Tams, treas.; F. Howald, mgr. Cap. 8tk, \$55,000. Red Ash. Drift, 50,000 tons. John H. Bell, supt.

Royal Coal & Coke Co. J. Fred. Effinger, prest.; John H. Howald, seey., Wingr. Cap. 84k, 855,000. Prince. Drift, 50,000 tons. John H. Bell, supt. W. P. Tams, treas.: F. Howald,

Rush Run Coal & Coke Co. J. Fred. Effinger, prest.; John H. Howald, seey.; W. P. Tams, treas.; F. Howald, mgr. Cap. stk, \$55,000. Rush Run. Drift, 50,000 tons. John H. Bell, supt. Taylor Simpson Coal Co. W. E. Colborn, mgr. and supt. Simpson. Tunnel, 40,000 tons; horse,

Shipson Ry, 42. Spilman . . . Mase Ry, Camden 533, 534. Mason

Consumers' Coal & Mining Co. B. D. Spilman, prest., O. A. Roush, seey, and treas.: H. E. Spilman, mgr. and supt. Cap. stk. pd. up \$15,000 - Camden. Open pit, drift, 50,880 tons; steam, electricity.

ingfield. . . Hampshire Ry, Meadow Creek 132. Springfield. Spring Hill Kanawha

Springfield & New River Developing Co., Springfield, W. Va. J. E. Myres, prest, and mgr., J. W. Ferguson, seey, and treas. Cap. stk. \$25,009. (Developing.) Black Band Mining & Manufacturing Co., Spring Hill, W. Va., J. W. Humbird, prest., Robert McDonald, seey.; A. M. Worldredge, mgr. Black Band. Drift, 200 tons; steam. James Noble, supt.

Ry. 132, 344. Thomas, Ry, 799. Tucker

H. G. Davis Coal Co. H. G. Davis, prest., F. S. Landstreet, seey, and supt.; H. G. Buxton, treas, and Cap. 8tk, 8300,000. Thomas. Draft, shaft, 200,000 tons, horse; 50 coke ovens, capacity 10,000 tons.

ke Co., A. J. Bonalleld, prest, and mgr., U. U. Orr, secy.; W. H. Watkins, treas, Cap. stk. West End. Open ptt, 66,000 tons; horse, 40 coke ovens, capacity 4,200 tons. John W. Bona-Preston West End Coke Co. Tyreonnell Mines Taylor Newburg Orrel Coal & Coke Co., Baltimore, Md., 33 S. Gay st. Cap. stk. \$500,000. Tyreonnell. Tunnel;

Ry. 42. Union Mines Ry. Handley 132,

Kanawha Mount Morris Coal Co. Charles Trudgen, prest, and treas., Park Chapman, seey.: Samuel Chirgivin, mgr. 432. Cap. stk. \$10,000. Mount Morris. Tunnel, 75,000 tons., horse.

Viylan ... Ry. 523

McDowell Peerless Coal & Coke Co. R. C. Luther, prest.; D. B. Lewis, seey.; Geo, C. Clausen, treas.; H. C. Zacharias, ingr. Cap. 8tk, \$150,000. Peerless Colliery. Tunnel; steam, 400 coke ovens. , Brooke, Forbes, Carmichael & Co., Wellsburg, Tunnel, open pit, 17,000 tons; horse, William Forbes, supr.

Wellsburg

Winifrede Ry, 132, 824.

.Kanawha Winifrede Coal Co., Philadelphia, Pa., 548 Waluut st. Theodore Wright, prest.; D. W. Chandler, seey, and trens.; R. B. Cassady, mgr, and supt. Cap. stk. 8800,000. Winifrede. Open pit, 350,000 tons; steam; horse.

### SALT

LOCATION OF MINE OR WELL, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000
POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Tows Hartford City

Mason Liverpool 8alt & Coal Co. A. E. Smith, prest, and treas.; Charles Clitton, secy, and mgr. Cap. 8tk, \$15,000. Wells, 65,000 brls.; steam.

Malden

Kanawha J. Q. Dickinson & Co. Cap. \$60,000. Well, 35,000 brls.; steam.

Mason . . Ry. 533

Rv. 534.

Southern Salt Co. B. J. Redmond, prest, and treas.; J. D. Moore, secy., J. C. Kautz, mgr. Cap. stk. \$50,000, Domestic, Wells, 60,000 brls., steam. Virgil Moore, supt.

### SAND

LOCATION OF MINE OR BANK,
RAILWAYS, WATER ROUTES,
AND SHIPPING POINT. AND

COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Berkeley Springs, Morgan Berkeley Sand Co., Pittsburg, Pa., 1413 Carson st. J. D. Wilson, prest.; F. K. Bryce, secy.; Thomas F. Ry, 42. Challinor, treas. Cap. stk. \$0.000. Sand. Open pit, 30,000 tons; steam.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILNS AND	
AldersonMonroe Ry. 132.	Alderson Brown Stone Co., Richmond, Va., 1115 Main st. James D. Crump, prest.; George W. Clark, seey, and treas. Cap. stk. \$100,000. Alderson, sandstone. Open pit, 5,000 tons; steam. T. P. Honsby, supt.	
HintonSummers Ry, 132,	Virginia Brown Stone Co., Cincinnati, Ohio, 54 Carew Bidg. John L. Scanlan, prest.; H. L. Thornton, seey.; Charles McDonald, treas, and mgr. Cap. stk. \$100,000. Sandstone. Open pit, 10,000 tons; steam; mill. John McCool Sunt.	

SEE ALSO SUPPLEMENTARY LIST

# WISCONSIN

### GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Ry. Maxwell 141(3 m.

Wabasha Mining Co., Wabasha, Minn. C. Jellison, prest., treas. and mgr.; J. H. Mullen, seey. Cap. stk \$500,000. Wabasha, silver. Shaft; free.

# IRON

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Commonwealth Florence Commonwealth Frol Co., Cleveland, Obio, 64 and 62 Wade Bldg. E. W. Ogfebay, prest.; C. W. Merrell, By. 150. (2p. std., 550,000, Commonwealth, Badger and Davidson, hematite, Shaffs and open pits, 53,870 (ons. steam. O. C. Davidson, supt.

Florence. Hubbard. (P.O. Iron Mountain Ry, Iron Ridge 141.

Florence Florence Iron River Co., New York City, 46 Wall st. John Scott, prest.; H. Paderstein, seey, and treas Florence, red hematite. Shaft, 200,000 tons, steam. S. T. Beattie, supt.

Dodge Northwestern Iron Co., Milwankee, Wis., 57 New Insurance Bidg., Irving M. Bean, prest, and mgr.; W. muain K. Packman, seey.; Chas. F. Hisley, treas. Cap. stk. 850,008. Iron Ridge, red hematite. Open pit, 18,000 tons; horse. Winter's Metalile Paint Co., Iron Mountain, Wis. I. B. Winter, prest, treas, and mgr.; F. W. Barrows, seey. Cap. 8tk. \$10,000. Iron Ridge, hematite. Open pit, 800 tons; steam.

Ry. 449, 827.

Ashland Montreal River Iron Mining Co., Cleveland, Ohio, 39 Wade Bldg. J. H. Wade jr., prest.; E. W. Oglebay, seey.; G. A. Garretson, treas.; Geo. H. Abeel, mgr. and supt. Cap. stk. \$500,000. Montreal, hemafile seey.; G. A. Ga Shafts; steam.

Odanah Iron Co., Milwankee, Wis., 448 New Insurance Bidg. S. S. Curry, prest.; H. S. Haselton, seey. Francis Hinger, supt. Cap. sik. \$550,000. Carey, West Carey and Odanah, hematike. Shafts; steam C. H. Minger, supt. Penokee & Gogebic Consolidated Mining Co., Cleveland, Ohio, Perry-Payne Bildg., Joseph L., Colby, treas-Cap. 8tk. \$4,500,000. Colby, bessener, hematite. Shaft, 200,000 tons; steam. W. J. Wolcott, supt.

Iron Belt

Ashland Iron Belt Mining Co., Cleveland, Ohio. L. H. Severance, prest.; John L. Severance, secy.; D. E. Lesli trens. Cap. stk. \$5,000,000. Iron Belt, bessemer, red hematite. Shaft, 150,000 (ons, steam. Dumea McVichle, supt.

Ironton. Ry. La Valle 150.

Sauk Iron Monutain Ore & Furnace Co., G. W. Andrews, prest., mgr. and supt.; H. C. Gridley, seey.; J. C. O. Gorman, treas, Cap. 8tk. \$200,000. Sauk, red hematite. Open pit, 3,000 tons; hand and horse;

Knight - Ashland P.O. & Ry. Plummer 827

Ashland Umon Iron Mining Co., Ashland, Wls. H. H. Gulsberg, prest.; F. H. Payne, secy.; L. Kolman, treas.; moer 827. — Wm. Jocko, mgr. and supt. Cap. stk. \$40,000. Sampson. Shaft; steam.

Vaughu. Ashland (P. O. Hurley) Ry.

Germania Iron Mining Co., Hurley, Wis., E. A. Hayes, prest,; W. P. Lyon, seey.; J. O. Hayes, treas, and mgr. Gap. sitk, \$1,00,000. Germania, brown hematite. Shafts, 100,000 tons; steam and compressed air. D. D. Smith, supt. Gogelic Developing Co., Chicago, Ill. Chas, F. Harding, prest.; Geo, F. Westover, seey.; Frank Farwell, treas.; R. R. Trezona, mgr, and supt. Cap. stk. \$5,000,000. F. Hennepin, Pence and Snider, red hematite. Shaft, 55,000 tons; steam.

Weyerhauser., Chippewa Minnesota Mining Co., Minneapolis, Minn. W. H. Hinkle, prest.: J. Hume, secy.; Frank Foote, treas.; Ry, 455.

J. N. Staey, mgr. Cap. stk. \$1,000,000. Minnesota, bessemer. Shafts; hand (developing).

#### LEAD AND ZING

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Company or Individual, Location of Principal Office, Names of Office68, Capital Stock, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT

AND Benton

La Fayette Benton Lead & Zinc Mining Co. P. A. Orton, prest.; J. Buchan, seey, and treas.; T. H. Ewing, mgr. and supt. Cap. stk. \$48,000. Benton Blend, zinc. Shaft, 2,000 tons; horse,

Calvert Bros. Cap. \$4,000. Well Strike, lead. Shafts, 100 tons; horse. Joseph Alton, supt Coltman Maning Co. Coltman, lead and zine. Tunnel, 1,300 tons: hand,

Dodgeville . Iowa Davis Bros. Cap. \$4,000. Dodgeville, lead and zinc; horse, Ry. 319, 150,

Evans Bros. Cap. \$2,000. Kangaroo, zine and lead. Shafts, 150 tons; horse and hand. T. M. Evans, supt. Joseph Sobey & Co. Cap. \$5,000. Dodgeville, lead and zinc. Shafts, 330 tons; horse. Thos. B. Davis, supt.

Whitford & Kelley, Cap. \$10,000. Calumet and Hecla, lead. Shafts, 4,000 tons; steam. Joseph Shafer jr.,

Harrison . . . Gran (P. O. Plattsville) Ry Grant Hillary, Richter & Co., Platteville, Wis. Crabtree, zinc. Shaft, 200 tons; hand. 141, 150,

# LEAD AND ZINC-(CONTINUED)

LOCATION OF MIR RAILWAYS, WATER R AND SHIPPING POI	OUTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, RIND OF MINE, ANNUAL OUTFUT IN TOSS OF 2.00 FORCHS, KINO OF POWER USED, SMELLERS, ETC., AND NAME OF MINE SUFFERINFENDENT.
TOWN AND C	OUNTY.	-
Jamestown Ry. Cuba City is	Grant 50.	May & Brant, South Menominee, Lead. Shafts; free; horse and hand; furnace. Conrad May, supt.
Linden Ry. Edmund 150	lowa	Linden Mine Co. Wm. Adams, prest. and supt.; John Bowden, secy.; John Vial, treas.; John Adams, mgr. Cap. 8tk. \$100,000. Linden, lead and zinc. Shaft, 200 tons.
	. ** 1	W. Ross & Co., Mineral Point, Wis. Linden, lead and zinc. Shafts, 200 tons.
Mifflin Ry, Rewey 150.	lowa	Livingston & Miffin, Livingston, Wis. Cap. \$10,000. Coker, lead and zinc. Shaft, t,200 tons; steam. John Rain, Supt.
**	. "	Union Mining Co., Mineral Point, Wis. Wm. Bainbrudge, prest.; George Bainbridge, secy. and treas.; Jas. Spensley, mgr. and supt. Cap. stk. \$100,000. Union, zinc. Shaft (developing).
Mineral Point Ry. 141.	lowa	Wm. & Jas. A. Hoare. Hoare, lead and zinc. Shaft, 520 tons; horse and hand.
41	**	Jones & Snow. Zinc. Shafts, 1,600 tons; horse. John Jackson, supt.
**	**	Spensley, Jones & McIchon. Bonanza, zinc. Shaft, 1,000 tons; horse. James Thrasher, supt.
45	**	Tyack & Oates, Iowa st. (local). Lead and zinc. Shaft, 45 tons; hand.
New Diggings, La F Ry Benton 150.	ayette	Empress Mining Co. Joseph Coulthard, mgr. and supt. Empress, zinc. Shaft and tunnel, 400 tons; hand.
44	. **	Eureka Mining Co., Benton, Wis. Wm. Curwin, prest.; P. H. Whaley, seey, and treas. Eureka, tunnel, 200 tons. T. Comiskey, supt.
44	4.0	Ida Mining Co. Richard Sherwin, secy.; George Hoffman, mgr. and supt. Ida, lead and zinc. Shaft, 1,000 tons; steam.
**	**	Robert E. Lee Mining Co., Etna, Wis. T. A. McCarthy, prest.; Joseph Coulthard, seey, and supt.; John Coulthard, freas.; M. J. McCarthy, mgr. Cap. 8tk, 825,000. Robert E. Lee, zinc. Shaft and tunnel, 500 tons.
**	**	Sallie Waters Mining Co. M. Newman, prest, and supt. Will McGivney, seey., treas. and mgr. Sallie Waters, lead and zinc. Shaft, 1,000 tons; steam.
	**	Zine Carbonate Co., Shullsburg, Wis. John H. Savage, prest.; A. Hayden, secy. and treas.; F. C. Riehmond, mgr. Cap. 8tk. \$25,000. Lead and zinc. Tunnel, 2,200 tons; steam. Henry Hoffman, supt.
Platteville Ry. 141, 150.	Grant	Graham & Holzer, Graham's, lead. Shaft, 35 tons; hand.
41 .	**	Spensely Hutchinson. Silver Plune. Lead and zinc. Shaft, L500 tons; horse.

Murphy & Stephens, Cap. \$10,000. Lead. Shaft, 100 tons; hand. Schroeder Bros, & Wolf. Cap. \$2,500. Lead. Shaft, 55 tons; hand.

Stephens & Stephens. Lead and zinc. Shaft and tunnel, 200 tons; hand.

Shullsburg ...La Fayette Lucky Hit Mining Co. Lucky Hit. Lead and zinc. Shaft, 50 tons, horse, Ry. 141.

Wisconsin Lead & Zinc Co., New York City, 2 Nassau st. W. Rotch, prest.: Frederick Swift, seey, and treas: Win. P. Blake, gen. ingr. Cap. stk. \$1,000,000. Galena, Little Glant, Dry Bone, McCarthy and Helena. Lead and Zinc. Shafts, tunnels, open pits, 6,000 tons; steam; furnace. Cap. Higney, suph. White Oak..., La Fayette | Pick & Gad Mining Co., Shullsburg, Wis. A. A. Townsend, uigr, and supt. Pick and Gad. Lead. Shaft lly, and P. O. Shullsburg H4.

# MINERAL PAINT

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

TOWN Green Bay..... Ry, 380, 150.

.Brown Pascal Degrandgagnage. Whitney Bluff. Open pit. I ton: steam.

# STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

AND COUNTY

Amberg Marinette Amberg Granite Co., Chicago, Ill., 119 and 121 La Salle st. W. A. Amberg, prest and treas.; W. R. Hins-dale, see, and mgr. Cap. stk, \$150,000. Aberdeen, Argyle, Athelstane, Martindale and Pike, granife, Open pit, 16,000 tons; steam. Ezekiel Edwards, supt.

hland — Ashland Superior Brownstone Co., W. H. Singer, prest,; W. W. Whitney, secy. Cap. 8tk, \$50,000. Bass Island, Ry, 142, 529, 827. brown sandstone. 10,000 tons; steam; mili. Ashland

Bayfield.. .. Bayfield Flag Riyer Brownstone Co., Duluth, Minn., 541 Lake av. S. J. F. Fredin, prest.; E. A. Wilson, secy.; C. W. Wilson, treas.; G. J. Miller, mgr. Cap. stk. \$30,000. Flag Riyer, brownstone. Open pit.

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### STONE, MARBLE, GRANITE AND ONYX (CONTINUED)

Location of Mine or Quarry, Railways, Water Routes and Shipping Point. COUNTY NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEKILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Bayfield . (Continued.)

Bayfield Iron River Brownstone Co., Duluth, Minn., 606 First National Bank Bidg. A. E. McCordic, prest.; J. F. Cargill, seey, and mgr.; W. G. Crosby, treas. Cap. stk. \$100,000. Iron River, brown sandstone, Slope, 2,000 tons; steam and horse. August Bromain sup.

Beloit . Bock Ry. 141, 150,

William Samp, 412 Wheat St. City, limestone.

J. Popham (local). Popham's, building stone. Open pit; hand.

Berlin Green Lake Ry. 141.

Berlin Granife Co. Wm. Bannerman, prest., mgr. and supt. Cap. s(k. \$12,000. Berlin, granife. Open pit. 6,000 tons; horse. Berlin & Montello Granite Co., Clucago, Ill., 162 Washington st. J. H. Shepard, prest.; C. B. Beach, seey, and treas.; W. H. Bairstow, 1997. Granite. Open pit, 30,000 tons. steam. Geo. Knowles, supt.

Archibald McCallum, Sweeting st. Cap. \$5,000. McCallum's, blue grauite. Open pit, 12,000 tons; horse,

Black River Falls. Jackson Rv. 143. Brule Donglas

Arcadian Brownstone Co., Chicago, Ill., 161 LaSalle st. A. J. Chency, prest., Austin Moody, seey.; W. S. Maxwell, treas, and mgr. Cap. stk, \$100,000. Arcadian, brown sandstone. Steam.

Burnside Trempealcan Ry, and P. O. Inde-pendence 296.

Ry. 529.

A. T. Wickham. South Side, stone, sand, clay. Slope; hand,

Byron Fond dit Lac Ry. 827

Christopher Geiger. Cap. \$15,000. Limestone and flagging.

Hamilton Lime & Stone Co., Ketcham, Wis. A. K. Hamilton, prest, and treas.; Martin Corwin, seey, and mgr. Cap. stk. \$35,000. Limestone. Open pit; steam; klins, 20,000 tons. C. M. Fisher, supf.

Dodgeville Ry, 319. Duck Creek : Ry, 141, 150. Brown Rionx & Bentley, Cap. 86,00). Duck Creek, Ilmestone. Open pit; sleam, hand and horse,

Iowa Davis Brothers. Cap, \$5,000. Dodgeville, limestone. Horse; limekiln, 12 tons.

Fond du Lac Ry. 150.

Marblehead Line Co., Chicago, Ill., 68 and 50 Canal st. A. T. Howe, prest.; C. C. Bishop, seey, and treas.; A. Newton, ingr. Cap. stk. \$190,000. Eden, limestone and flagstone. Open pit; Bincklin, 700 tons. T. G. Kinder, supt.

Nost Bros., Marblehead, Wis. Cap. \$50,000. Limestone, 15,000 tons.

John Horton. Building stone. Open pit: powder.

David Hodgins, Cap. \$5,000. Limestone. Open pit; kiln.

Fox Lake Ry. 141. Dodge A. Fanshaw, Cap. \$1,000. Fox Lake, limestone. Open pit; horse and hand,

Fulton

Rock, G. W. Coxhead, Edgerton, Wis. Building and limestone. Open pit, 800 tons; hand, limekilus, 4,200 tons.

Green Bay Ry. 380,

Green Lake

Brown Pascal Degrandgagnage. Whitney Bluff, limestone. Steam; mill; limekiln 20 tons.

Green Lake Ry. Ripon 141, 150. Green Lake Granite Co., Chicago, Ill., 1004 and 1005 Tacoma Bldg., John D. Caton, prest., John D. Sher-wood, seey.; Chas. E. Towne, treas. Cap. stk. \$100000. Green Lake, granite. Open pit. 7,500 tons;

Hortonville Rv. 449. Outagamie Houghton Ry, 143.

Baylleld Hartley Bros., Minneapolis, Minn., 418 Hennepin av. Hartley's, brown sandstone, 10,00) tons; steam;

Howard P. O. and Ry. Creek 150. Duck M. Brunette, Velp, Wis. Cap. \$100,000. Old Duck Creek, blue limestone. Open pit, 37,500 tons; steam;

Hubbard May Wm. Finnegan Brick Manufacturing Co., Fort Howard, Wis. Cap. 8tk, \$50,000. Blue limestone. Open pit; steam. W. E. Finnegan, supt.

Ry, and P. O. ville 141. Juneau . Ry, 150.

Mayville White Lime Works, Mayville, Wis, Chas, Ruedebusch, prest., Emil F. Ruedebusch, seey, and treas; Herman H. Ruedebusch, mgr. Cap. stk. 83,000. Brown's Corner Stone, limestone. Open pit, 20,000 tones; steam and electricity, mill. David Powers, supt. J. D. Finney. Stone. Open pit, hand; mill.

Kaukauna Ry. 150, 149,

Ontagamie Kaukauna Stone Quarry Co. Cap. 86,000. Limestone. Open pit, 3,300 tous; steam. J. Jones, supt.

Knapp Rv. 143.

Dunn Goodyear & Saddle Mound Sandstone Co., La Crosse, Wis. Levi Wisher, prest.; G. R. Vincent, seey, and treas.; das. M. Revnelds, mgr. and supt. Cap. 8tk, \$42,000. Goodyear and Såddle Mound, sandstone. Open pit: steam; inill.

Madison Ry, 141, 150, 319,

David Stephens, Cap. \$20,000. Stephens, limestone and sandstone. Slope, 30,000 tons; steam, e'ectricity and hand; mill. John Muenster, supt. Wood Johnson & Ward, Milwaukee, Wis., Room 5 Old Insurance Bldg. Wisconsin, red and gray granife. (De-

Marshfield Ry, 143, 827 ama ...Outagamie Ry. 449, 827, Medina

Medina Stone Quarry Co., Appleton, Wis., 768 Appleton st. C. B. Morrison, prest, and treas.; R. S. Baird, seey., supt. and mgr. Cap. 8tk. 810,000. Medina, limestone. Open pit, 5,000 tons; steam.

Menomonee Falls Wankesha Ry. 450.

Menomonee Falls Quarry Co., Milwankee, Wis., 100 Wisconsin st. Whilleld Smith, prest.; Samuel Rosendale, seeg.; Henry Herman, treas.; A. H. Haddield, ngr. Cap. stk. \$100,000. Menomonee Falls, linestone. Open pit. 4,0000 tons; steam; mill. R. J. Blair, sup.

Montello

Marquette Berlin & Montello Granite Co., Chicago, Hl., 162 Washington St., Jason H., Shepard, prest.; C. E. Beach, seey, and treus.; W. H. Bairstow, mgr. Cap. 81k, 8250,000. Montello, granite. Open pit, 10,000 fons: water; mill. Edward Rurns, supt. unt Pleasant . . Racine | Fox's Lime & Stone Co., Racine, Wis. Cap. \$18,000. Fox's, building and limestone. Open pil, 25,000 tons: 141, 150. | 441, 150.

Mount Pleasant

# STONE, MARBLE, GRANITE AND ONYX -(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT, TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF FOWER USED, STONE OR MARBLE MILLS, LIMERILINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.
Mount Pleasant Racine (Continued.)	Horlick's Lime & Stone Co., Racine, Wis. Alex. Horlick, prest.; G. W. Horlick, secy. and treas. Cap. 8tk. \$20,000. Horlick's, lime and building stone. 15,000 tons; klins, 6,000 tons. J. A. Horlick, supt.
New Diggings, La Fayette Ry, Benton 150.	Joseph Coulthard, Etna, Wis. Empress, bluestone, Shaft and tunnel, 500 tons; horse and hand.
New Richmond St. Croix Ry, 143, 827.	Oakes & Sons. Limestone, soapstone and sandstone. Open pit; water. Win. Oakes, supt.
Oshkosh Winnebago Ry, 141,	Oshkosh Quarry Co., cor, Knapp and Thirteenth sts. Wm. Faber, prest, and treas.; A. Lutz, secy.; Robert Lutz, mgr. and supt. Blue limestone. Open pit, 48,000 tons; steam.
Pewaukee Wankesha Ry, 141.	Waukesha Stone Co., Milwaukee, Wis., 469 Third st. Oscar Knie, prest, and mgr.; Daniel Meyers, seey.; Fred Kraus, treas. Cap. stk. \$100,000. Waukesha, ilmestone. 80,000 tons. steam. Frank W. Harland, supt.
Platteville Grant Ry, 141, 150.	Place & Gerdts, Cedar st. Cap. \$1,000. Bride, limestone. Open pit, 13,000 tons; hand,
Presque 1sle Ashland Ry, and P. O. Ashland 386.	Ashland Brown Stone Co., Chicago, Ill., 1140 The Rookery, G. A. Bodenschatz, prest.; E. H. Brown, seey.; J. G. Bodenschatz, treas; A. M. Brown, mgr. Cap. stk, \$100,000. Ashland, brownstone. Open pil, 20,000 tons; steam. A. E. Dickinson, supt.
Sheboygan Sheboygan Ry, 150, 380, 449.	Sheboygan Lime Works, 822 Niagara st. Mrs. H. E. Roth, prest. and treas.; Herman L. Roth, seey. and mgr. Cap. stk, \$40,000. Limestone. Open pit; steam; kilns. Martin Schultz, supt.
Sparta Monroe Ry, 141, 150.	Simon W. Bunce (local). Cap. \$300. Freestone. Open pit, 1.780 tons; hand.
Sturgeon Bay Door Ry, 380.	John M. Laurie, Cap. \$8,000. Laurie's, stone. Open pit, 10,500 tons; horse and hand.
TrempealeauTrempealeau Ry, 135, 150, 296,	J. A. Johnson, Riverview, free and limestone. Slope; hand.
Washburn Bayfield Ry, 143.	Babcock & Smith, Houghton, Wis. Cap. \$30,000. Washburn, brown sandstone. Open pit. 90,000 tons; steam. W. H. Smith, supt.
**	Prentice Brownstone Co., Ashland, Wis., 200, 202, 204 and 206 Knight Block. F. Prentice, prest., treas, and mgr.; J. B. Niles, seey. Cap. stk. \$125,000. Prentice, sandstone. Open pit. 43,706 tons; steam; stone mill.
Wauwatosa Milwaukee Ry, 141.	Monarch Stone Quarry Co., Milwaukee, Wis., 371 Broadway. H. Niedecken, prest.: J. W. Bingham, seey, and gen. right. Cap. 8tk, 8100,000. Monarch, dimension and rubble stone. Open pit, 130,000 tons: steam. H. H. Greene, supt.
11	Story Brothers, Milwaukee, Wis., Room 7, 204 Grand av. Story Bros., limestone. Open pit, 30,000 tous; compressed air.

White Water, . Walworth G. W. Coburn, Coburn, limestone. Open pit; hand, 1,600 tons, Ry, 146.

SEE ALSO SUPPLEMENTARY LIST

# WYOMING

# **ASPHALTUM**

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

LOCATION OF MINE,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT. AND COUNTY

AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPPRINTENDENT.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHIERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Piedmont

Town Almy .... Ry, 776. Uinta Chas, Guild & Sons, Katie, Open pit.

# COAL BITUMINOUS

... Uinta Union Pacific Coal Co., Omaha, Neb. No. 7. Slope, 140,000 tons. steam. W. T. Ramsay, supt. Black Buttes Sweetwater Black Butte Coal Mining Co. William Matthews, prest.; P. C. Kettle, seey, and supt.; C. B. Sears, treas, Ry. 776. Black Butte. Stope, 60,000 tons, horse.

Buffalo Johnson Ry, Gillette ss.	Robert Foote (local). Cap. \$4,000. Dannond. Slope, 4,000 tons; horse.
	Munkres & Mather (local). Cap. \$20,000. Munkres and Mather. Slope, 5,000 tons. horse. G. W. Munkres, supt.
Cambria Weston Ry, Newcastle 88,	Cambria Mining Co., Beatrice, Neb. W. H. Kilpatrick, prest.; C. W. Collins, vprest.; R. J. Kilpatrick, seey, and trens. Cap. sik. 8800000. Jumbo and Antelope. Tunnel, 346,666 tons; compressed air; breaker, William Job, supt.
Carbon Carbon Ry, 776.	Union Pacific Coal Co., Omaha, Neb., Ninth and Farnam sts. Cap. stk. \$20,000,000. Carbon No. 2, Slope, 473,372 tons: steam. E. J. Hall, supt.
Cokeville . Uinta Ry, 776.	E. M. White. Burch Creek. Shaft: steam, washer. C. M. White, supt.
Dana . Carbon Ry, 776.	Union Pacific Coal Co., Omaha, Neb., Ninth and Farnam sts. Cap. stk. \$20,000,000. Dana. Slope, 17,593 tons; steam.
EvanstonUinta Ry, 776 (11 miles).	Porter, Ditsworth & Lizert, Alma Porter, mgr. Cap. stk. \$20,000. Cannel. Slope, 2,000 tons; steam, George Ditsworth, supt.
Rý. Almy 776.	Roeky Mountain Cod & Iron Co., San Francisco, Cal., cor. Fourth and Townsond sts. Charles F. Crocker, prest. Frank S. Douly, seey, and treas. Cap. stk. \$1,000,000. Almy. Slope, 180,000 tons; steam. A. E. Braibury, supt.
Hain's Fork. Uinta Ry, 776.	Overstree & Dodsons, Salt Lake City, Utha, Box 1991. J. F. Dodson, prest. R. E. Dodson, seey.; L. M. Dodson, treas.; G. W. Overstree, mgr. and supt. Cap. \$40,000. Peacock. Slope; horse and hand (developing).
Hanna	Union Pacific Coal Co., Omaha, Neb., Ninth and Fornam sts. Cap. stk. \$29,000,000. Hanna, Nos. 1 and 2, 190,858 tons, steam. G. R. Hill, supt.
Lander Fremont Ry, Rawlins 776.	James E. Gillis (local). Cap. \$4,000. Gillis. Slope, 1,000 tons, horse.
New Castle Weston Ry, 89.	New Castle Mining & Improvement Co., Beatrice, Neb., J. B., Weston, prest.; R. J. Kulpatrick, seey, and treas.; W. H. Klpatrick, mgr. and supt. Cap. stk. \$590,001. New Castle. Tunnel, 365,365 tons; compressed at 30 overs.
Rawlins Carbon Ry, 776.	I. C. Miller. Shuft and tunnel; hand. Jacob E. Fridley, supt.
Rock Springs Sweetwater Ry, 776.	Inter State Coal Co., Ogden, Utah, 2468 Washington st. E. T. 19daniski, seey, and treas. G. G. Griffith, nigr. and supt. Cap. stk. \$200,000. Tater State. Tunnel, steam.
"	Rock Springs Coal Co. H. G. Balch, prest.; John W. Donnellan, seey.; A. Kendall, treas.; P. J. Quealy, mgr. and supt. Cap. 8tk, \$200,000. Nos. 1 and 2 and Incline. Slope, 110,000 tons; steam.
**	Sweetwater Coal Maning Co. M. T. Greene, prest. S. R. Frazier jr., seey, and treas.; Chas. R. Kelsey, mgr and supt. Cap. stk. \$500,000. Sweetwater. Drift, 100,000 tons, horse.
* .	"nion Pacific Coal Co., Omaha, Neb., Ninth and Farman 8ts. Cap. 8th, 82020,000. Rock Springs No. 1. Stope, 297,68 tons, steam. 6. L. Black, supt. Rock Springs No. 3. Stope, 2521 tons, steam. 6. L. Black, supt. Rock Springs No. 4. Shaft, 635 tons, steam. 6. L. Black, supt. Rock Springs No. 5. Shaft, 635 tons, steam, horse, G. L. Black, supt. Rock Springs No. 7. Tunnel, 84,325 tons, steam and horse. G. L. Black, supt. Rock Springs No. 8. Shaft, 6452 tons, steam and horse, G. L. Black, supt. Rock Springs No. 8. Shaft, 21,552 tons, steam and horse, G. L. Black, supt.
"	Vandyke Coal and Mining Co. Fred W. Gray, prest, and treas: P. C. Kettle, mgr. and supt. Vandyke, Slope and tunnel, 36,000 tons, horse.
Sheridan Sheridan Ry, Gillette 88.	Geo, Brundage. Local. Black Diamond. Timnel, 1,000 tons; hand.
P. O. Inyan Kara .	Briar Hill Coal Co. clocal). Brear Hill Tunnel; hand.

#### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE, KIND OF OBE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Swan. Ry. Fort Steel 776 (75

miles).

Carbon Milliken & Hauley, Carbon, Wyo. Michael Hauley, prest., mgr, and supt.; John Milliken, treas, and secy. 776 (75 Cap. \$10,000. Axis, copper. Shafts, 500 tons; hand.

### GOLD AND SILVER

LOCATION OF MINE. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND RAILWAYS, WATER ROUTES AND SHIPPING POINT. OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT. Atlantic City... Fre Ry. Rawlins 776, Garfield Mining Co., Boston, Mass., 45 Oliver st. A. O. Norton, prest.; Hon, Harry C. Peabody, seey.; C. W. Baldwin, treas.; M. B. Lovell, mgr. Cap. stk., \$500,000. Garfield, gold, Tunnels, shafts, 10,000 tons; free; steam. A. M. Sparlawk, snpt. Fremont Emile Granier. Cap. \$400,000. Christina Lake, gold. Placers, 20 claims; free; hydraulic. Geo. A. Zimmerman, sunt. Robert McAnley. Mary Ellen, gold and silver. Shaft; hand, Gold Hill Mining & Milling Co. H. B. Allen, prest.; J. S. Allen, secy.; Mander Peterson, treas.; Geo. H. Fales, mgr. Cap. stk. 860,000. Occidental, gold and silver. Shaft; free; steam; 10 stamps. John Martin, supt. Carbon ... Ry. 776. .... Carbon Gold Hill. . . . Carbon P.O.& Ry. Rawlins 776. John Booker, Cap. \$2,500. Wild West, gold. Open pit; refractory; steam; 10 stamps. Col. Downey, supt. Otras Mining Co., Laramie, Wyo. Lionel Sartorio, prest.; Fred Douglas Willan, secy, and treas.; W. C., Knight, ngr. and supt. Cap. stk. \$1,000,000. Keystone and Blue Jay, gold. Shafts, 7,000 tons; free, refractory, steam, water; 20 stamate; 20. Albany Laramie Ry. 776. Miners' Delight ,Fremout Ry, Rawlins 776. George Bishop. Coming Day, gold. Tunnel; free; hand. John Disner, □ Gold. Placer. Welcome Crook Inter Ocean Mining Co., Chas. J. Finch, mgr. Cap. stk. \$40,000. Inter Ocean, gold. Open pit, 22,500 tons; steam; mill, 100 tons. R. G. Anderson, supt. Ry. Whitewood, S. Dak., 274.

P. O. & Ry. Red Lodge Mont., 529(150miles).

Rinchart, Finch & Co. Cap. \$20,000. Gold Finch, Gold Bank and Gold Coin, gold and silver. Shafts and tunnels; hand.

Dunham Mining Co. S. C. Hunter, prest.; A. E. Flager, seey, and treas.; R. B. Dunham, mgr. Cap. stk. \$1,500,000. Gold. Tunnel; refractory.

# TRON

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Blast Furnaces, Etc., and Name of Mine Superintendent.

Town AND COUNTY Sundance . . . C Rv. Newcastle 88.

Crook Midland Mining & Developing Co., Rapid City, S. Dak. John J. Rochford, prest.; E. M. Reeves, seey.;
 W. W. Hinton, treas.; Samuel Scott, mgr. and supt. Cap. stk. \$25,000,000. Iron, hematile. Open pit, placer.

# STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED. STONE OR MARBLE MILLS, LIMEBILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT

COUNTY Town AND Rawlins . . . Ry, 776.

Carbon Kearney Stone Works, Kearney Neb. J. T. O'Brien, prest.; H. J. Stedman, secy, and treas.; J. Murdock, mgr. Cap. 8tk, \$60,000. Gray, stone. Open pit, 6,250 tons; steam. James McPherson, supt.

SEE ALSO SUPPLEMENTARY LIST

# SUPPLEMENTARY LIST

# MINING COMPANIES AND OPERATORS

# UNITED STATES OF AMERICA

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE

FAILED TO FURNISH DESIRED DETAILED INFORMATION FOR REGULAR LISTS				
ALABAMA	NAME	POSTOFFICE	NAME	POSTOFFICE
	Fort Payne Furnace Co.	Fort Payne	Silver Bow Basin Minir	g
COAL BITUMINOUS	T. M. Anderson . Sheffield & Birmingham Coal, Iron & Ry. Co	Gadsden	Co. Silver Queen Mining Co Takon Consolidate	. Juneau
NAME POSTOFFICE	Coal, Iron & Ry. Co	Gamble	Takon Consolidate	d
J. W. Lowry Arkadelphia A. Burns Bangor Harrison Mining Co Resemer American Coal Co. Birmingham	Stevens & Co C. M. Morgan	Huffman	Mining Co	. **
A. BBIBS Bangor Harrison Mining Co. Ressemer			R Albertstone	Sitka
American Coal Co Birmingham	Co	Jacksonville	Nicholas Haley	***
Yulean Coal & Coke Co., "	Co  Jenifer Iron Co. Pledmont Iron & Land	Jenifer	T. R. Mooney	**
American Coat Co. Harminguam Yulcan Coat X Coke Co. " Z. Cornellus	Pledmont Iron & Land	Piedmont	W. T. Webster R. Albertstone Nicholas Haley T. R. Mooney W. F. Turner P. C. Welttenhiller Orlando Grant Sand, Gullett Richard Stack	**
E. M. Tutwiler	Vlabama Construction & Muning Co.		Orlando Grant	Loring
James Bynum Carbon Hill	Mining Co	Talladega	Saml, Gullett,	**
J. F. Keld Coal Co		4.6	Richard Stack	**
Co	D. M. Rogers, W. H. Skaggs	44		
Champlen Mining Co Champlen	J. M. Sims A. Durn	Trussyllle		
Warrior Coal & Coke Co. Coaldale	A. Durn Penn, & Alabama Co.	Tuscaloosa		
Win, Gool & Co Coaling Joe Caming Connells ville Mines	reint. & Anabama ev.		ARIZ	ONA
Win, Gool & Co	PHOSPH	ATE	COPE	FP
Marshall Smith Cullman	Mobile Phosphate Mfg.			
Harrison Coal Co. Dogwood	Co	Mobile	Geo. Rohpeter Conner King Mining C	Aqua Fria Valley a Clifton
W. L. Watson Ego	STONE, GRANITE, MA		Copper King Mining C H. D. Underwood	Tucson
Sam Com Gadsden			P. Oates Mex. Trlppde Jerome Mining Co	Globe
J. S. Paden	Simon Jewell	Anniston	Arcx, Tripper Joronne Mining Co	Presentt
Etowah Mining Co . Grudup		Attalla	berome saming co	111
Eureka Coal & Coke Co Helená South Birmingham Coal	W. L. Wilson		COLD AND	SILVER
& Iron Co. "	J. M. Fancher	Furnace	Hudson Bros	Aqua Fria Valley
Zenlda Coal Co	Mr. Lawrence	Thintsyallo	Bogan & Trescott, W. C. Clark, H. F. Diehl	Arivaca
Zenida Coal Co D. Bales Liberty Milner Coal A. Ry, Co. Naw Costla	F. M. Cabot	Irondale	W. C. Clark.	44
Mind to the control of the control o	M. L. Pritchett	Jackson		0. "
Virginia & Mabania Coal	ROSS & Coroct Co	Aonns Sibrin	Salvador Pignatori	0. "
C. A. Nolan Pratt Mines	M. Fancher M. Cabot Mr. Lawrence F. M. Cabot M. L. Pritchett Ross & Corbet Co R. F. O'Brien. W. N. Martin. R. D. Smith .	Trussyltte	Satvador Fugnatori Silver Queen Mining C Frank Stegall W. W. Wallace VellowJacketMmingC Frank Biffar Jos. E. Brockman Willis Cross.	0, "
Horse Creek Coal Co. Sharon	R. D. Smith	44	W. W. Wallace	b s
lvv Leaf Coal Co			VellowJacket MiningC	0, , "
May Ellen Coal Co Harry Wadkins Trussyille Tuska Coal, Iron & Lead			Frank Bullar	Cherry.
Tuska Coal, Iron & Load	ALA	K.A	Willis Cross	4.0
Perrson Coal, Iron X Ballroad Co Warrior Woodward Iron Co Woodward Birmingham Mig. Co Wyonond			EttaMining&Milling C	0, "
Pearson Coal, Iron &	COAL		Sutton MalVhorter	**
Woodward Iron Co Woodward	Cooper Mining & Trad	17 15 15	Gold & Silver Chit Mi	11-
Birmingham Mfg. Co. Wymond	ing Co		ing Co .	Clifton
	COLD AND	SILVER	Etta Mining & Milling C Richard Lyon Sutton McWhorter, Gold & Silver Chiff Mi ing Co Joseph Brewster Joseph Henry George Kingdon Resease Mining Co Wilson & Rendrery	Citone
COLD	F. Cook Peter Johnson Henry Meade Mexican Mining & Mill-	Douglass	George Kingdon	4.9
Alabama & Georgia Min- ing Co Anniston The Talladega Gold Mm-	Peter Johnson	**	Rescue Maning Co	
The Talladera Gold Mm-	Mexican Mining A Mill	. "	W 11 Woods on	
ing Co. Talladega	ing Co		John Barnett	Gold Basin
	Prof. Shutze	**	John Fox.	
IRON	Israe Rointer	backson	Chas, Hand	**
Fremont Finch. Anniston	ing Co Prof. Shutze Geo, Stuggy Isaac Bointer W. D. McLeod Aviward X Mel angletin	***	John Fox. Chas. Hand S. C. Rowe Joseph E. Anderson E. B. Blumburg	Greaterville
Marcus Stacks	Aylward & McLanghlin	Juneau	E. B. Blumburg	41
Elowah Mining Co Attalla	Charles Bart. W. M. Bennett. Henry Boursin Carroll, Murray, Fuller & Wells		F. F. Childers P. J. Cuyne	**
Morange Mining Co.	Henry Boursin		Dant, Johnston	**
Morange Mining Co. Southern Iron Co. Builton Iron Co Bluilton	Carroll, Murray, Fuller		Bohinson Rros	**
Cedar Bluff Land, Min-			J. Saunders	
ing & Mfg. Co Cedar Bluft	Mining Co		E. B. Jago	Mammoth
J. R. Sewell.,			J. Saunders Thos. W. Steele E. B. Jago Coyle & Coyle	Phoenix
W. H. Denson & Co Collinsville Z. T. Lawrence Farill	Kamantaros & Co Wm. McLernon .		Phornix Mining Co. Frank Kuhne	Prescott
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418 1111 3115		
NAME POSTOFFICE	NAME POSTOFFICE	NAME Hopkins, Nash & Co. Adm S. Lewis Frank Vamderlist & Co. Daisy Hill Mining Co. Alameda Daisy Hill Mining Co. Alameda LittleAmador Aliming Co. Anderson Badd Hill Mining Co. Anderson Ladd Hill Mining Co. Anderson Ladd Hill Mining Co. LittleAmador Aliming Co. LittleAmador Amador Aliming Co. LittleAmador Aliming Co. Lit
Lyny Crook Gold & Land	L. L. Petty Silver Hill	Hopkins, Nash & Co Adin
Co Prescott	L. L. Petty Silver Hill B. F. Wolf W. H. Wolf	S. Lewis " Frank Vanderlist & Co. "
Mines		Daisy Hill Mining Co Alameda
Senator Mining Co Silver King	IRON	Amador Gold Mining Co. Amador City Ellipse Mining Co
Lynx Creek Hydraulic Mines.  Senator Mining Co. Jessie H. Brown.  Selver King Geo. Labb.  Money of San Mining	Jesse M. Barrett Batesville J. H. Patterson K Bro. St. St. M. W. Recyces St. Siloam Springs Mining K Prospecting Co. Siloam Springs	LittleAmadorMiningCo.
	M. W. Reeves	ing Co
John Paul	Siloam Springs Mining S. Prospecting Co. Siloam Springs	Foster Mines Anderson
Danl. Regan		Calaveras Cons. Gold
George Sarlich	LEAD AND ZINC	J. M. Bryan Auburn
Sam Thorpe "	Bullion City Mining Co., Fayetteville	Erie Mining Co
Richard Trevethan "	Dayis & Linton	J. W. White
Old Guard Mining Co. Tombstone	J. B. Milum & Co. " P. J. Piores & Co. "	BritishGravelMiningCo. Bangor
Ouijotoa Mining Co	Bullion City Mining Co., Fayetteville J. W. Bradley & Co. Powell Days & Linton	F. E. Hall
II. S. Stevens	Reager pros	D. R. Moran Rising Sun Mining Co
ing Co Vulture	STONE, GRANITE, MARBLE AND ONYX	Wm Calwan Benton
Co John Paul. Jacob Pengilly John Paul. Jacob Pengilly Daul. Regan George Sarlich D. H. Taft. Sam Thorpe Richard Trevethan. R. S. Wright Old Guard Mining Co. Tueson Outon Mining Co. Tueson Outon Mining Co. Yulture Milliog & Min- Desing Co. Wulture Milliog & Min- Desing Co. Vulture Blossom Mining Co. P. P. Mathieson. Pasadena Mining Co P. P. Mathieson. Pasadena Mining Co Paymaster Mining Co. Paymaster Mining Co. Frank Vonicil.	T. H. White Bryant Beaver White River Stone & Mining Co. Eureka Springs W. F. Blakemore Greenwood W. B. W. Heartsill Heartley Stone Co Hontington W. B. W. Stoll Long Ruck	Henry Garner "
P. P. Mathreson	Beaver White River	J. F. Milner "
Paymaster Mining Co.	W. F. Blakemore Greenwood	Mining Co Berkeley
Frank Vomieil "	W. B. W. Heartsill	D. F. Longfellow Big Oak Flat
IRON	Heartley Stone Co Huntington W. J. Sword Lone Rock Jas. Kelly Russellville	J. C. McLaughlin "
	Joe Crawley Strickler	H. M. Stanley Hearson & Murray Black Bear
G. K. W. McNary Copper Basin	W. J. Sword Lone Rock Jas. Kelly Rassellville Joe Crawley Strickler S. F. Dule Strickler	J. J. Smith & Co
SIONE, GRANITE, MARBLE AND ONYX	11 III, 1740C.	Peter Anderson Bridgeport
Big Bug Onyx Co. Prescott		Inter State Cons. M. Co.
M. J. Sullivan Tueson		Hibbert & Burris Browns Valley
	COLUMNIA	ing Co Brownsville
	CALIFORNIA	John Castello
	ALUMINUM	John Filosie.
ARKANSAS	American Ahuninum Co.San Francisco	J. W. Gardner
AUNANDAD	Pacific Coast Aluminum	J. H. Hanter Hugh Kelley
COAL BITUMINOUS	ASPHALTUM	Frank Koffler " A. G. Leaterman "
Stewel & Co . Coal Hill		C. H. Lee
Stewel & Co . Coal Hill R. M. Winn & Co	SantaBarbaraAsphaltCo.La Patera	C. H. Lee John McMullin " R. Mather
R. M. Winn & Co Rice Bros Fayetteville J. D. Bender Hackett	SantaBarbaraAsphaltCo.La Patera	John McMullin " R. Mather " Samuel Olson "
Stewel & Co R. M. Winn & Co Rice Bros J. D. Bender Vational Coal Co J. J. Alexander Huntington  Stewel & Co Coal Hill Coal Co Fayetteville Hackett Huntington	SantaBarbaraAsphaltCo.La Patera	C. H. Lee John McMullin. R. Mathler Sanniel Olson T. W. Orton. B. Paggoni
Stewel & Co. R. M. Wrim & Co. Rice Bros. J. D. Bender. Xitional Coal Co. J. J. Alexander. G. M. Anderson  Stewel & Co. Coal Hill Fig. 10 Fig.	SantaBarbaraAsphaltCo.La Patera	T. W. Orton. B. Paggoni
Stewel & Co Coal Hill R. M. Winn & Co William & Co Rice Bros L. D. Bender Hackett National Coal Co J. J. Alexander Huntington G. M. Anderson D. A. Foley Harrellson.	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co ElSimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal	T. W. Orton. B. Paggoni
Autonat Coat Co J. J. Alexander Huntington G. M. Anderson D. A. Foley D. Harrellson G. A. Hutchinson	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co ElSimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Control J. J. Alexander Huntington G. M. Anderson D. A. Foley D. Harrellson G. A. Hutchinson Stillwell & Co. Minime Little Rock	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co ElSimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Control J. J. Alexander Huntington G. M. Anderson D. A. Foley D. Harrellson G. A. Hutchinson Stillwell & Co. Minime Little Rock	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co ElSimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Control J. J. Alexander Huntington G. M. Anderson D. A. Foley D. Harrellson G. A. Hutchinson Stillwell & Co. Minime Little Rock	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co ElSimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Control J. J. Alexander Huntington G. M. Anderson D. A. Foley D. Harrellson G. A. Hutchinson Stillwell & Co. Minime Little Rock	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Chaney Coal Co. Elsinore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Bureka Coal Mining Co Livermore Livermore Coal Co. Black Diamond Coal Co. Los Angeles Croyon & Ashirst New Idria Jush, Kelle Coal Co. San Francisco Coal Harbor Coal Mining Coal Harbor Coal Mining	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
National Coal Co J. J. Alexander . Huntington G. M. Anderson D. A. Foley	SantaBarbaraAsphaltCo.La Patera  COAL BITUMINOUS  James Muir. Clayton Chaney Coal CoElsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal  Co. La Coal Eureka Coal Mining Co Livermore Livermore Coal Co. Back Diamond Coal Co. Los Angeles Croyon & Ashurst New Julia Josh, Kelli Coal Co. Newcastle Carbon Hill Coal Co. Newcastle Carbon Hill Coal Co. New Coal Coal Harbor Coal Mining	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co. Elsinore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Eureka Coal Mining Co Livermore Livermore Coal Co. Black Diamond Coal Co. Los Angeles Croxon & Ashurst New Idria Jush, Kelley Assertation of America Coal Harbor Coal Mining Coal Harbor Coal Mining T. Elloworth Organ Coal & Naviga-	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co. Elsinore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Eureka Coal Mining Co Livermore Livermore Coal Co. Black Diamond Coal Co. Los Angeles Croxon & Ashurst New Idria Jush, Kelley Assertation of America Coal Harbor Coal Mining Coal Harbor Coal Mining T. Elloworth Organ Coal & Naviga-	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co. Elsinore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Eureka Coal Mining Co Livermore Livermore Coal Co. Black Diamond Coal Co. Los Angeles Croxon & Ashurst New Idria Jush, Kelley Assertation of America Coal Harbor Coal Mining Coal Harbor Coal Mining T. Elloworth Organ Coal & Naviga-	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
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Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co. Elsinore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Eureka Coal Mining Co Livermore Livermore Coal Co. Black Diamond Coal Co. Los Angeles Croxon & Ashurst New Idria Jush, Kelley Assertation of America Coal Harbor Coal Mining Coal Harbor Coal Mining T. Elloworth Organ Coal & Naviga-	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir. Clayton Chaney Coal Co Elsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Elsimore Siskiyon Coal Mining Co.Hornbrook Barck Diamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Mining Coal Mining T. Elsworth . " T. Elsworth . " T. Elsworth . " Traine Improvement Co. Cooper Coal & Navigation Coal John Langley, Box 22. South Riverside Jinking Richards . Traey James Trobvell	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander . Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson . G. A. Hutchinson . Stillwell & Co Russellville Coal Mining C. Co C	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir. Clayton Chaney Coal Co Elsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Elsimore Siskiyon Coal Mining Co.Hornbrook Barck Diamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Mining Coal Mining T. Elsworth . " T. Elsworth . " T. Elsworth . " Traine Improvement Co. Cooper Coal & Navigation Coal John Langley, Box 22. South Riverside Jinking Richards . Traey James Trobvell	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Authorial Coal Co J. J. Mexander J. J. Mexander J. Marterson G. M. Anterson G. M. Anterson G. A. Hutchinson G. M. Saveet Coal Mining G. Russellville J. N. Saveet Coal Ming, Co. H. Lee J. M. Saveet Coal Ming, Co. H. Lee J. M. Saveet Coal Ming, Co. H. Lee G. M. Harder G. Strickler J. G. Landon J. G. England Fayetteville Fayetteville Mining Co. G. T. Kunan Co G.	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir. Clayton Chaney Coal Co Elsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Elsimore Siskiyon Coal Mining Co.Hornbrook Barck Diamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Mining Coal Mining T. Elsworth . " T. Elsworth . " T. Elsworth . " Traine Improvement Co. Cooper Coal & Navigation Coal John Langley, Box 22. South Riverside Jinking Richards . Traey James Trobvell	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander. Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson G. Brissellville J. A. Sweet Coal Ming, Co H. Lee J. R. Smith Blue Mt.Olf K Mineral Co. Waveland  COLD AND SILVER  Crystal Spgs. Mining Co Crystal Springs G. H. Jacobs J. G. England G. Fayetteville Fartteville Fartteville G. T. Kuman G. T. Kuman G. T. Kuman G. T. Kuman G. T. Hang Stephen Lemons W. H. Lang Stephen Lemons W. H. Lang Stephen Lemons W. H. Lang Harterson Lost Louisianatid. Mine-Hot Springs J. M. Feguson Huntington Huntington Huntington	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir. Clayton Chaney Coal Co Elsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Coal Co. Elsimore Siskiyon Coal Mining Co.Hornbrook Barck Diamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Co. Los Angeles Croyon & Ashurst . New Idria Josh, Kellamond Coal Mining Coal Mining T. Elsworth . " T. Elsworth . " T. Elsworth . " Traine Improvement Co. Cooper Coal & Navigation Coal John Langley, Box 22. South Riverside Jinking Richards . Traey James Trobvell	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
Autonal Coil Co J. J. Alexander. Huntington G. M. Anderson G. M. Anderson G. A. Hutchinson G. Brissellville J. A. Sweet Coal Ming, Co H. Lee J. R. Smith Blue Mt.Olf K Mineral Co. Waveland  COLD AND SILVER  Crystal Spgs. Mining Co Crystal Springs G. H. Jacobs J. G. England G. Fayetteville Fartteville Fartteville G. T. Kuman G. T. Kuman G. T. Kuman G. T. Kuman G. T. Hang Stephen Lemons W. H. Lang Stephen Lemons W. H. Lang Stephen Lemons W. H. Lang Harterson Lost Louisianatid. Mine-Hot Springs J. M. Feguson Huntington Huntington Huntington	SantaBarbarnAsphaltCo.La Patera  COAL BITUMINOUS  James Muir Clayton Claney Coal Co. Elsimore Siskiyon Coal Mining Co.Hornbrook, Sacramento & Jone Collone Co. Ilone Eureka Coal Mining Co. Hornbrook Biack Diamond Coal Co. Los Angeles Crovon & Ashurst We believe the Coal Mining Co. Livermore Livermore Coal Co We believe the Crovon & Ashurst We weastle Coal Harbor Coal Mining Co " T. Elsworth " T. Elsworth " T. Elsworth " T. Elsworth " Cooper Coal & Conner- cial Co Santa Rosa John Langley Box 22. South Riverside Jinking Richards Tracy James Treibvel COPPER  Cave Meadows Mng. Co.Cedarville John Donner Clayton Chan Committed Clayton Committed Cla	T. W. Orton B. Paggori Ham Pabuer William Peck J. Pereni J. Pollard
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Autonal Coil Co J. J. Alexander. Huntington G. M. Anderson G. M. Anderson G. M. Anderson G. A. Hutchinson G. M. Sweet Coal Mining G. Hussellville J. M. Sweet Coal Ming, Co H. Lee J. R. Smith Blue Mt.Olf K Mineral Co. Waveland  COLD AND SILVER  Crystal Spgs. Mining Co Crystal Springs G. H. Jacobs J. G. England G. Fayetteville Fartteville Fantteville G. T. Kuman Co G. T. Hang W. H. Lang Stephen Lemons W. H. Lang Stephen Lemons W. H. Lang Harterson Lost Louisianatid.Mine Hot Springs J. M. Feguson Huntington Huntington Huntington	SantaBarbaraAsphaltt'o.La Patera  COAL BITUMINOUS  James Muir. Clayton Claney Coal Co., Elsinore Siskiyou Coal Mining Co. Hornbrook, Sacrainento & Ione Cool One Eareka Coal Mining Co. Hornbrook Eareka Coal Mining Co. Livermore Livermore Coal Co., Black Diamond Coal Co. Los Angeles Croxon & Ashurst — New Idria Josh, Kelley — Newgastle Carbon Hilf Coal Co. San Francisco Coal Harbor Coal Mining T. Ellsworth — San Francisco Coal Harbor Coal Mining T. Ellsworth — Cooper Coal & Comment Co. Coper Union Copper Mine — Copperopolis Copper Illi Mining Co. Daggett W. A. Barnett — Pope Valley Imperial Paint & Copper Co. Comment Comper Mine — San Francisco Copper Comment — San Francisco	T. W. Orton.  R. Pargoni Ham Fabner William Peck J. Perent J. Pollard H. Ratfork Savereot Bros G. W. Vanderpool Edward Ware Dr. Henry White William Wison John Goff Jubols K Nichols Goodwin K Sullus J. Gravet Goodwin K Sullus Goo
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W. Me Lean Maybank & Parsons	M. Bracken	Al. Nelson . "
Rocky Glen Mining Co	Maurice Roberts Jeft Romaine Shormake & Almy Silsty & Hughes Jas. Sterling Jas. Jas. Jas. Jas. Jas. Jas. Jas. Jas.	Geo, Robinson, David Clark Markbeeville C. Coleman Chas, Dudlea Al. Nelson Black Mariarvel Ming. Co. Eastern Star Mining Co. Mark Antony Gold & Silver Mining Co. Mark Antony Gold & Onleksilver Ming. Co. E. E. Meek Mining Co. E. E. Meek Mining Co. E. E. Meek Mining Co. E. Meek Mining Co. E. Meek Mining Co. J. J. Rieg
Brunswick Consolidated	Daniel Klaugberg Thos. McVey	Eastern Star Mining Co.
Gold Mining Co Grass Valley	Rooker & Lacy	Mark Antony Gold &
Clinch & Co	W. C. Pidge	Silver Mining Co
Manion & Roach	R. C. Spears " Swansea Bell M. Co "	Quicksilver Mng. Co. "
Merrimac Gold Ming.Co.	App & Co Jamestown	E. E. Meck Mining Co.
Mt. George Mining Co	H. Carlin fr Gray Eagle Mining Co	John Pefter Mining Co
Providence Mining Co. "	Crookshank CoJoion	J. J. Rice
Orney Pacific Cons. Mug. Greenville.	Guisely Co	Jas. A. Sneed Mining Co. " Ulus. F. Swezy Mng Co. "
E. D. Steyenson Bruiswick Consolidated Gold Mining Co Clinch & Co Clinch & Co Clinch & Co Manifor & Roach Martina Gold Mining Co Mono Gold Mining Co Providence Mining Co Providence Mining Co Providence Mining Co Johnny Tail Mining Co Johnny Tail Mining Co Johnny Tail Mining Co  To Co Mono Gold Mining Co Providence Mining Co Providence Mining Co Johnny Tail Mining Co  Greenville	Gray Eagle Mining Co Crookshank CoJoion Guisely Co Chaparal Mining CoJulian Gold King Mining Co"	J. J. Rice Jas. A. Sneed Mining Co. Chas. E. Swezy Mng.Co. Fillmore Hill Mining Co.

Timbuctoo Gold & Silver  Mining Co. Marysville Blue Jay Gold Ming, Co. Maybert McCailois & Hilton Michael Bar Taylor & Tracy McCailois & Hilton Michael Bar Taylor & Tracy A. J. Bislop. Michigan Bluft G. W. Cusick G. W. Morehard G. W. Cusick G. W. Cusick G. W. Cusick G. W. Morehard G. Cusick G. W. Morehard G. W. Marnade G. T. Adlan G. W. W. W. W. Morekustle G. T. Adlan G. W.	2.1319	
Timbuetoo Gold & Silver	NAME POSTOFFICE	NAME POSTOFFITE Carson Creek Mining Co.San Francisco Cons. New York Min- ing Co. Room 79 Nevada Blk. Crossbow Gold Mining Co. Soon 19 Nevada Blk. Co. Boon 19 Nevada Blk. Co. Boon 19 Nevada Blk. Boon 19 Neva
Mining Co Marysville	Jub Fingrey Ophir Charles Bristol Orleans H. Ferris H. Kumbsel H.	Cons. New York Min-
Blue Jay Gold Mng. Co. Maybert	H. Ferris	ing Co "
Taylor & Traey Mengan Bar	J. A. Pearch	Crossbow Gold Mining
A. J. Bishop Michigan Bluft	F. P. Wilder "	Co
M. Corcoran	Eastlick Bros Oro Fino	Crown Point Mining Co. "
Alfred Dixon.	Wright & Co. "	Damascus Mining Co "
Fissell & Co	H. G. ChickeringPanamint	Diamond Creek Colo.
A. Hank & Co	Peter Gallagher	217 Sansome st.
Harmeson & Co "	Eachlek Bros. Oro Fino D. Starr. Wright & Co. H. G. Chickering Panamint John Curran Peter Gallagher " Frederick Russell Gabatan Mining Co. Ferler Russell Gabatan Mining Co. Frederick Russell Gabatan Mining Co. Ferler Russell Gabatan Mining Co. Ferler Russell Gabatan Mining Co. Ferler Start Gabatan Gab	217 Sansome St. F. S. Douty Fourth & Townsend sts. El Leopold Gold & Silver Mining Co.
P. N. Jellrgenson & Co., " Ed Kavenaugh "	Gabalan Mining Co Perris	Fourth & Townsend sts.
J. H. Keown.	Thos. Moorehouse	Mining Co
Thomas McCall "	Jerry Shea	Golden Prize Cons. Min- ing Co
Wm, Mitchell "	Reed & Askey Pine Grove	ang Co
Morehead & Co	J. H. Bradley	Gold Mountain Mining Co. "
Murr Tunnel Co	Cedar Springs Gold	213 Grant av.
R. Noble.	Delmocia Quartz Co "	Gold Mountain Mining Co. 213 Grant av. Grass Valley Hydraulie & Land Co. Gray Eagle Mining Co. Gray Mining Co. Gray Nowline St. R. 15 & 17. Industrial Mining & Milling Co. Gray Nowline Mining Co. Gray Nowline Mining Co. Gray Mining Co. Gray Mining Co. Gray Mining Co. Mining Co. Mining Co. Sorth Belle Isle Mining Co. North Belle Isle Mining
S. Park & Co	Epley Gold Quartz Co "	Gray Eagle Mining Co "
Wm. M. Ray & Co	Centle Annie Gold	Haven & Haven " Head Center & Tran-
Roger, Watson & Davis	Gopher Boulder Quartz	quility Mining Co "
P. Shields & Co.	Co Lyons Gold Gravel Min-	310 Pine st., R. 15 & 17.
Stuart & Co "	ing Co	Milling Co
Sufeliffe Bros	C. N. Meyers	Care Nowlin & Fassett.
Steve Thompson	Parry & Thompson	Locomotive Mining Co., "
Frank FitzgeraldModock	Parlew Gold Quartz Co "	M. J. McDonald Esq "
Sierra Buttes Gold Min-	Ringold Gold Quartz Co. "	Mammoth Garfield Gold
V. A. Berthel	Plymouth Cons Gold	North Belle Isle Mining
C. P. Colby	Lyon Gold Gravel Min- Lyong CO C. N. Meyers O. C. N. Meyers Pacific Gold Quartz Co. Perry & Thompson. Parlew Gold Quartz Co. Ringold Gold Quartz Co. Ringold Gold Quartz Co. True Cons. Gold Co. Plymouth Cons. Gold Mining Co. Plymouth Cons. Gold Mining Co. Promona Burke & Lewis. Quartz Valley L. P. Dee & Co. Edwards N Lee Lyong Constitution L. Ponge Aaron Bell Redding Reddi	Co R. 15 & 17, 310 Pine st. Occidental Cons. Min- ing Co
Wm Untehinson	Reaves Gold Mining Co	R. 15 & 17, 310 Pine st.
Chong Kee & Co	Burke & Lewis Onartz Valley	ing Co
A. Khell	J. P. Dee & Co	59 Nevada Block.
Pearsall & Estrado	Edwards & Lee Quincy D. Conradio Pail Pond Flat	Ophir Gold & Silver
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Ceo. F. Allan Nevada City	1 L. Pouge	Silver Mining Co "
Co. "	Cleveland Cons. Mines. "	The Oriole Wining &
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Jas ButtsNewcastle	C. K. McElwer	hig Co 19 Nevada Block. Ophir Gold & Silver Ophir Gold & Silver The Original Keystone Silver Mining Co. 330 Pine st. The Oriole Mining & Milling Co. Peach Orchard Gold Mining Co.
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John Hofbrook	Texas Cons. Mines	R. 26 Neyada Block.
Mai, E. L. Hubbard	HexGold Mining Co. Ltd. Rich Gulch	Phoenix Mining & Mill-
R. Jones	Mining Co Riverside	P. Reddy "
J. D. Matthews "	Eagle Mt. Mining Co "	330 Pine st.
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Stephen Quinn "	Monongo Mining & Mill-	Silver Hill Mining Co. 300 Montgomery st. Sunheam Gold Mining
Dr. M. Schuabet	Ing Co	309 Montgomery st.
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Jacob Zantgraf	Me Vair & Holt "	Weldon Mining Co "
J. R. BrownNimshew	Banner Gold Milling &	300 Montgomery st.
Oro Fino Mining Co.	Mining Co Sacramento	Western Star Gold &
S. C. Bevens . North Bloomfield	Mining Co. "	ao Montgomery st. Vestern Star Gold & Silver Maing Co. Peter Gilles. San Sincon J. P. Pierce Co. Santa Clara Don Carlos Gold Mining Co. Santa Cruz Levant Markham.
C. O. Jepsen	Pajaro Mining Co	J. P. Pierce Co Santa Clara
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R. Rossen " Hansen Quartz Mag. Co Navolty	W. A. Wallace "	Volcano Tunnel Co "
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Noonday Mining Co	Mining Co "	H. & Kelner Giershen. " Harrie Bros. "
A. W. Woodside, " Almeda Co. Inn. Co. Oakland	79 Nevada Block.	Hickey Bros
El Sueno Gold & Silver		A. M. Hopson
Mining Co	Andes Silver Mining Co. "	G. A. Mohr & Co
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A. G. Grenett	309 Montgomery 83. Arctic Placer Mining Co. Care of Jas. L. King. Bainbridge Placer & Quartz Mining Co Best & Belcher Mining Co	Chas, Nicolet Sawyersville
E. M. Hall	Bainbridge Placer &	O. D. Campbell
W. E. Lamb	Best & Belcher Mining	Geo. Magoffey & Co.
E. W. Roberts "	Co "	C. M. Bailey Soind Valley
D. R. McKillani. R. Rossen H. W. Dunlap H. Oakdate Noonday Mining Co. H. W. Dunlap H. Suenet Cold K Sityer H. Hall H. Stenet Cold K Sityer H. Hall H. H. Hall H. H	Room 33 Nevada Block. Black Hawk Gravel Min-	John Bailey
Co	ing Co.	John Sener "
Geo. F. Whitney	Blair Cons. Mining Co " Boyanza Mining Co "	Dig Callyon Cour Mille Shingle Springs
T. F. Johnson . Og'lby	Bullion Mining Co "	Cleveland Mining Co Sierra City
Jacob Murray . Ono	CO Room 33 Nevada Block, Black Hawk Gravel Min- ling CO. Bair Cons. Mining CO Bonarez Mining CO Bullion Mining Co 331 Fline 84.	Hughes Mining Co "
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Good Control C	California Ramie Co " 321 Market St.	Chas, Nicolet
Lozano Pillow . "	321 Market St.	Kising Sun Mining Co

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Steelman & Hayes Co	Grant Read "	P. Hoy. Loomis
Wm, Tell Mining Co	Clea A Shery	The Decley Granite Co. Los Appelos
Bellevino Mining Co., Soulsbyville	Col. F. Von Licht & Co. "	C. Scheerer
Jas. Burns	Andrew Rocea & Co " Geo. A. Sagry" Col. F. Von Licht & Co. New Idria Mining Co New Idria E. A. Hardy Oat Hill Bully Choop Mining Co John & Levis Barnett - Pope Valley John & Levis Barnett - Pope Valley California Fron & Steel WSs., 488 California st. San Francisco Robt, Elliott San Luis Obispo R. E. Jack William Ladd Tracy	622 W. Sixth st.
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John Sullivan	R. E. Jack	John Michelson "
Thos, Welch Stone	William Badd 1 racy	D & C Pestdorf "
Grizzly Gulch Co Stella		L. N. Whisley
Richard Hetschel "	Mark Hand Keeler	d. Galt Newcastle
Knickerbocker Co	Mark Hand	L. Voyle Oakdate Alameda Macadamizing Co Oakland
Mad Ox Co	J. A. McKenzie	Co Cakland
Phonix Co "	Jas. Stansborough . "	Laundry Farm Stone
Rattlesnake Co	Swansea String Co.	L. Lockburt
Spring Guleh Co	MINERAL PAINT .	Gatt & Gatt Penryn
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F. Duson	QUICKSIEVER	Stephen & Edwards "
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Charles Perry	New Idria Mining Co "	F. Vere J. H. Whitlock F. E. Knowles & Co. Raymond Alex. Wood
Peterson Bros	Siskiyou Const. Quick-	F. E. Knowles & Co. Raymond
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Arthur Crowley Three Rivers	silver Mining Co 306 Pine st. Altoona Quilek silver Mining Co Trinity Center	J. L. Grant . Rocklin
Jas. Hamilton	Mining Co Trinity Center	J. L. Grant Rocklin Samuel Kenter & Co Matt Lanber Tonin Tonin
Marcus Lavalle	0.41.7	Matt Lahty & Co
G W Burnes Toll House	SALT	T. Oning
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Bloss & McClory Trinity Center	F. Arl J. P. Tucksen J. P. Tucksen Swe Liverpool Salt Co San Francisco Stock Evelange Bldg Paellle Salt & Boray Co	Cuyamaca Quarry Co San Diego
Nosh Deep Gravet Gold	New Liverpool Salt Co. San Francisco	American Piver Land A
Regan & Roberts "	Stock Exchange Bldg.	Lumber Co. San Francisco
Strode & Bowden	Pacific Saft & Borax Co	320 Sansome st.
Kluss Mining Co Victor	SLATE	Linguis Ready
Sidenwinder Mining Co. "	California Siate Co. San Francisco	Eleventh & Bryant sts.
Maryland Mining Co Washington	9 Mission st.	J. W. McDonald . "
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Mining Co . Woodland	Acton Sandstone Co Acton	217 Sacramento st
H. S. Duensing Vankee Hill	H. J. Schmoyer Alburtis	11. Osterloh
H. Hawkins	J. San Clair	11. OSCFION 37. Commercial St. Pacific Paving Co Pacific Stone Co Sixth and King Sts. N. E. Perine Con. & Pav.
E. R. Lunt "	Allen Taylor Angel's Camp	Pacific Stone Co
J. Nichol	E. Turner Arcata	Sixth and King sts.
J. W. Spencer "	Mary T. Hayes "Agua Cantente	N. E. Perme Con. & Paly.
G. W. Stout "	W. B. Read	204 Montgomery st.
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Birdseve Creek Gold Mag	P Gallagher Black Point	Western Granite & Mar-
Stone, Trimby Co. Stegle Grizzy Cimbel Co. Grizzy Cimbel Co. Stella Richard Hetche Richard Hetche Mad Mule Co. Mad Ov. Co. " Mad Ov. Co. " Mad Ov. Co. " Mad Ov. Co. " Mad Mule Co. " Mad Victor Mule Mule Mule Co. Mad Mule Co. " Mad Mule	Acton Sandstone Co. H. J. Schmoyer J. Quigley J. San Clair Allen Taylor E. Turner C. F. Faber. Mary T. Hayes W. B. Read May & Clark Mining Co.Bangor J. J. Dunn. Berkely P. Gallagher G. Sputer G. Sputer J. Donnas	blet o San Jose
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SouthVubat anal & Mng.	Phunner Bros Centreville	California Bituminous
Co 2	Sydney Flat Mining Co Chinese Camp	Rock Co
The Ballarat Mining Co. Yreka John Daggett	d. Marsh Clayton	James Cormack
John Paggett	Geo Black Cloverdale	F Great 9
CYPSUM	Alf. Seymour Daggett	J. F. Morr. Santa Barbara
	R. Lewis Damaseas	J. Cope Santa Cruz
Lucas & Co	ing Works Deelezville	Henry Cowell & Co
IRON	Howell & Kanawyer Dunlap	C. W. Frost Santa Rosa
Anthony Mining Co. Combrin	Geo. R. Adams El Paso de Robles	Gny E. Grose
Black Hawk Mining Co. "Campria	G. Spiter Joe Phomas Borax Mining Co. Catheo Flammor Bros Sydney Plat Mining Co. Chirese Camp Sydney Plat Mining Co. Chirese Camp Glen Ferry. Geo, Black Gloverdale Mr. Seymour Dangett R. Lewis Dannaseas Los Angeles Gold & Min- ing Works Howell & Kanawyer Geo, R. Adams Heelezville Howell & Kanawyer Geo, R. Jereine Mrs. J. Winteroil Flamagan & Brosman Smpson & Brown Tolenas SpringsCuryx Co Fairfield Antelope Valley Marble Co. Catheouter Clay Layer	A. E. Ferme Con. A Pay.  20 Montigomery St.  20 Montigomery St.  Sarla Unichtoek Pay.Co.  Vestern Granite & Marbieto  blet o.  Co. San Louis Obispe  California Bituminous  Rock Co.  James Cormack  M. Greenburg & Co.  J. F. Morr.  J. F. Morr.  J. Cope  Rock Co.  J. F. Morr.  J. Cope  Rock Co.  J. F. Morr.  J. Cope  California Bituminous  Santa Barbara  A. Cope  J. Cope
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M. Munz	F. R. Frotcher	H. S. Curtis Vankee Hill

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COLORADO	Wilson Bros. Allaganay Tunnel Co. Elmira Mining Co. Express Mining Co. Chas, Morrissey. Treasure Vault Mining	Alma
ASBESTOS	Allaganay Tunnel Co	Ashernft
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Abestos Mining & Manu-	Chas, Morrissey	**
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33 Jagodson Diock	Wm. Warner Wolverine Mng. Co. Yellow Boy Mining Co. Aspen Favorite Mining	
ASPHALTUM	Aspen Favorite Mining	Asnen
American Asphalt CoDenver	Aspen Mountain Tunne	1
COAL	Bear Mt. M. & M. Co	
II II Roby Aviol	The Cash Gold Mining Co	. "
James Bros	Aspen Favorite Mining Co Aspen Mountain Tunne & Mining Co Berra Mt. M. & Mining Co Champion Empire Min Ing Co The Colorado Mine & Tunnel Co Hodden Mining & Smelt Ing Co Hotter Fark Mining Co Min Co Mining & Tunne Paystone Mining & Mining Mi	**
Pfeiffer & Wheeler " Thomas Shirwin "	The Colorado Mine &	
Eugene Taylor "	Holden Mining & Smelt	-
Western Coal Co Colorado Springs	Hunter Park Mining Co	::
M. A. Blackner Cortez	Miller Mining & Tunne.	i
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Cannon Coal Co "	Dayld Welch	
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Coal Co	H. B. Morse	44
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Mollar & Brown Coal Co. Eaton	C. F. Curtis	
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Saint Vrain Coal Co "	Dick Houghton	
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John M. Underwood "	Francis Wright	There were a free colo
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J. W. SearlsSan Mignel Wm Nuttall Villa Grove	Geo. II. Toof	Berthond
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NAME P. J. Werley. Jos. Yafes. Bacon Mining Co. Bass Nine Mining Co. F. E. Christie Farmcomb Hill Mining Co. Tinding K. W. Foote Governor Mining Co. R. R. Kirk. Little Corporal Mining Co. John Mairs Mohawk Mining & Mill ing Co. Olavar Placer Mine Puzzell Mining fo. The Gov. Routt Mining	POSTOFFICE Boulder
Jos, Yates Bacon Mining Co	Breckenridge
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Lawrence Mining & Milling Co	Canon City
Requa Gold & Silver Min- ing & Milling Co	
Wm. Donald	Capitol City Caribon
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Expert Mining Co Florence E. Mining Co.	41
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Mutual M. & M.Co	Mining Co "	Milling Co "
Myrtle Mining Co	The Temonj Mining &	
NapoleonGold MiningCo. "	Milling Co The Vera Beymer Mining & Milling Co The Vera Beymer Mining & Milling Co R. A. Work F. B. Wortman Cristian	Luchenbaugh Pulverizer Mining & Milling Co. " Mergold Mining & In- vestment Co "
Nugget Mining & Mill-	The Vera Beymer Min-	Mining & Milling Co.
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Princess Gold Mining	Dave Vessels	The Mint Mining Co "
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Rocky Mt. M. & Invest-	Mining Co	The Rio Hondo Gold
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Scotla Mining & M. Co Summit M. & M. Co Sunny Bell Mining &	Mining Co	The Rising Sun Mining
Super Poll Marine V	Abaing Co	Physita Uning K Mall
Sunny Bell Mining & Milling Co	The Atlanta & Creede Mining Co Bachelor Mount Mining	ing Co
The Uncle Sam Mining	& Milling Co	Rio Grande Valley Pros-
& Milling Co "	Barbara Gibson Mining	pecting & Mining Co. "
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Wyatt Mining Co "	Barthoff Mining & Mill- ing Co.	Silver Mining Co . "
Yule Creek Marble &	ing Co.	Salmon River Placer
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A. Barrett Cortez	Buffalo Creek Gold Min-	Milling Co
	lng Co Burton Gold & Silver	Summit Mining & Smelt-
S. Briley	Burton Gold & Silver	ing Co
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A. M. Denney "	Chemical Amal, Mining	Toronto & Montreal Min-
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Stanhope Mining Co	Copper Rock Gold Mint	Thos. Dayns . "
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Eureka Mining Co Crested Butte	The Corson Development	Thos. Hamilton "
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Jenny Lind Mining Co "	Currency Mining Co	A. L. Van Alstine
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Harrison Nash Crestone	Decatur Mines Syndicate	C. C. Warren "
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The Plus Rell Mining Co. 2	E. Deringer.	W. M. May
Blue Bird PlacerM & M	The Duncan Pure Gold	John Neil "
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& Milling Co	The Enir Change Manage	R. W. Chinn
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Milling Co Geneva Falls	Jonah Paregrim Howard	E. Gilley Meeker
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Co Greeley	Geo. Walker "	Humboldt Mining & Mill-
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Jewett Tunnel "	D. H. Dunn	Memphis Mining Co
ing, Mining & Mill-	J. R. McLeod	Mento Park Mining Co
ing Co Gunnison	G. D. Nickel "	Ruby Mountain Mining
John McCormack	J. S. Sanderson "	Silver King Mining Co
King Mining Co	O. F. Rodel J. M. Tripper J. J. Elhott J. J. Elhott Fortmas Gold & Silver Mining Co. Jako Springs Mining K. Development Co Lanisa M. Alcott Co. Javid Limites & Co. Market & Sullivan Javid Limites & Co. Market & Sullivan F. F. Osbiston W. C. Renshaw Herbert Westcott Carbonate King Mining Co. Monas Queen Mining Co. Jares Conditing Mining K. Milling Co. Janes Convay E. C. Dumbar W. F. Emmanuel W. F. Emmanuel J. J. Ay Mining Co. J. Jay	Co Empress of Aspen Mining Co Mescaph Barness Marble Loseph Geo. Metry T. M. Deck Loseph Geo. Mineral Poin For Logan Loseph Geo. Monarch Jefferson Mining Co. Mining Co. Wheel of Fortune Mine Cottonwood Placer Co. Naturita Low Lawrence Paul Warners Neelerland Low Milling Co. While Zeer James L. Hughes George Light Charles Lowess State Charles Lowess State Low Mining Co. Meniphis Mining

NAME	POSTOFFICE	NAME POSTOFFICE	NAME Con, Murphy. Summit Park J. W. Ransdel. B. E. Sheppard. Bear Creek Mining Co Geo. A. Brity. Gold King Mining Co Hector M
W. H. Murray John McNaughton - J. H. Rudolph	Park Dale Paonia	NAME POSTOFFICE Black Hawk Mining Co. Rico J. O. Campbell	Con. Murphy Snumit Park
John McNaughton J. H. Radolph J. O. Sandborn Maryin Slewart Maryin Slewart Earnest Richardson C. C. Vaughas, S. & C. Wheeler The Chromele Maining Co Columbus G. & S. Min Milling Co Milling Co Silver Basin Muning Co. Tyeoon Muning Co. Tyeoon Muning Co. Robert Berthe M. R. Hand San Mignel M. Hand San Mignel W. H. Wheeler S. H. Wheeler W. H. Wheeler S. W. Yugen W. Y. Clark W. Y. Clark W. W. Clark U. H. Clark W. Y. Clark J. B. Clemmons	raoma	C. H. Carpenter	B. E. Shennard.
I. O. Sandborn.		Wm. Chiesman	Bear Creek Mining Co Telluride
Marvin Stewart	**	Enterprise Mining Co "	Geo, A. Brite
L. C. R. Case	Parrot	Grand View Mining Co. "	F. M. Dunlap
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S. & C. Wheeler		Logan Mining Co	Mendota Mining Co . "
TheChronicle Mining Co	.Pitkin	F. T. Neeley, A. P. P.	E. E. Rankle & Co
Columbus G, & S. Min-		Wellington Mining Co	The Telluride Consoli-
Gold Brick Mining &		Thes Herean	Chas. V. Noble Thomasville
Milling Co	` ,,	Weinington Mining Co Dr. Crawford. Ridgway Thos. Herean H. L. Judd " Fred R. Turner Relmont Dev. Co Robinson Crown Point Mining Co	Geo. M. Noble
Silver Basin Mining Co		Fred R. Turner	John Clark Tin Cup
Tycoon Mining Co	Placarvilla	Crown Point Maring Co. Robinson	Chas. Foreman
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Walter Evans	**	G. B. R. Mining Co	Thos. McAulift
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Mining Co	**	St. Louis Mining Co	A N Perranit
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W. H. Wheeler	**	H. E. Woods	J. D. Carns . "
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G. Franklin . S. Otiver	**	Grand Union Co . "	Richmond Gold & Silver
		Nowport Mining & Mill	Mining Co
E. Rewalt	**	ing Co	Fred Grener Jas, McCauley A.T., Rankin Kielmond Gold & Silver Mining Co J.W. Whitington Trinidad Gold & Silver Mining Co Trinidad Bright Hopes Mining Co, Trout Lake Hon, Chester Green- Cara Mining Co Tear
Frank Rodd		Ed. J. Stephenson	Mining Co Trinkdad
F. Virden	6.	Red Rayen Cons. Min-	Bright Hopes Mining Co. Trout Lake
W. Ward		M. D. Rousman Rossoll	Hon, Chester Green-
R. Portues. E. Rewall Frank Rodd F. Yirken V. Waker C. Ward Alambea Mining Co Alambea Hill Mining Co Chroniele Mining Co Chroniele Mining Co CopperMontreh Mining Smetting & Rellning Co.	Pueblo	Bedmont Dev. Co. Robbinson Crown Point Mining Co. Diamond Mining Co. Diamond Mining Co. Diamond Mining Co. Diamond Mining Co. Lie L. Mowing Co. Lie L. Land Mining Co. St. Louis Mining Co. St. Louis Mining Co. Lie E. Woods. W. Livengood. Rockwood John Neary. Livengood. Rockwood John Nea	Oran Chester Green.  Wood Cara Mining Co. Jos. L. Roberts San Juan Mining Co. 4. H. & A. Anderson. "Twn Lakes W.H. Beal Will A. Buehaman Gree, E. Collins John Commors J. Hatchimson.
Bachelor Hill Mining Co.		Mountain Lion Mining	Fron Springs Mining Co. "
Captain Inea, Mining Co.	. "	& Milling Co., Sagnache	Jos. L. Roberts
Corpor Morarch Mining		Fresco C. Mining Co., St. Elmo Euleon Gold Munner &	A H A A Anderson Translakas
Smelting & Rellning		Milling Co Salida	W. H. Beal
Co.		Hugo Henkiter San Isabel	Will A. Buchanan . "
Denver City Cons. Min- ing Co		Howard Hopkins	Geo, E. Collins .
Ing Co		Higo Henkiter San Isabel Howard Hopkins Barney Met artney Harrison Nash Bemont Mining & Mill-	JOHN COHHOTS "
Franklin Mining Co.	41	Beimont Mining & Mill-	George Lane
Diamond R. M. Co. Franklin Mining Co. International Mining Co.	. **	ing Co San Miguel F. A. Dunlap Cold King Mining Co Hilgenhaus, Vorse & Co Jones & Weller	John Connors J. Hutchinson. George Lane Lewis & Henry Markt Jas. Rindelff L. R. Sharpe John A. Storm. Warren Cutler & D.
J. A. Joy.		F. A. Dunlap "	das, Rindelin "
J. A. Joy. The Lead Hill Mining & Milling Co Lucky Tunnel Mining Co Nelhe Sanborn Mining Co		Habrantons Varsa V Co. 22	L. R. Sharpe
Lucky Tunnel Mining Co.		Jones & Weller	Warren Cutler A D
Nellie Sanborn Mining		Keystone Gold Mining	Foster
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Phil Shoridan Mining S		Reystone Placer Co.	P. F. Griffith Villa Grove
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Philo S. & R. Co Phil Sheridan Mining & Milling Co Pueblo Bell Mining & Milling Co Pueblo Cons. Gold Min-		Co Keystone Placer Co. John McEwen E. E. Runkle "Turkey Creek Mining Co. Union Mining & Milling "	Monarch Mining Co
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E. B. Wicks	11	Co Chus Austin. Sargents F. P. Bannell F. H. Sanderson Booker & Lapton Booker	W. J. King Caroline Mining Co Monarch Mining Co Monarch Mining Co Caude Enterline Patter & Son G. Tarrible Mining Co H. Turner, B. Waters & James Silver Mount Mining Co Candbe Mining Co Candbe Mining Co Ward District Columbia Mining Co Grandives Mine Mining Co Grandives Mine Mining Co Oriental Mine John Reid Golden Hope Mining Co, W. Sullphur Springs Golden Hope Mining Co, W. Sullphur Springs Golden Hope Mining Co, W. Sullphur Springs
Yellow Jacket Mining &		H. W. Foss	Oriental Mine
Milling Co	DLette	Geyser M. & M. Co.	John Reid
Charmion Cons Minim	wea citi	Stover & Hammond	Golden Hope Mining Co. W. Sulphur Springs
& Milling Co.	.,	H. Townsend	George Boyd Wilke Cross
J. G. Da Lee	**	Gabriel Bartolomea Silver Phone	J. H. Brown
H. T. Epler	11	Dawson & Co " Thomas Fustage "	Jas. Chapman
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das, Smitherum		Silverton Mining Co . "	Park View Mining Co
Chas. H. Taylor		A. Duling Stonewall	Red Gulch M. Co
Wyomang Valley Maning		Thad Adams Sugar Loaf	Jas Steinbeck
Co.,		California Mining Co	George Wilson
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Co., American Belle Mining Co., Bob Tail Mining Co Carbonate King Mining	Red Mountain	J. G. Copes	Robt, Fernsworth , Woodland Park
Charlements, Lines Minimu		W. H. Froeso	lohn H. Smith
Co.,	3.0	J. Henderson	D. Spedman
Charles N. Collins.	**	J. Henderson	Alvin Stump
Co., Charles N. Collins, Cora Belle Mining Co Genesse Vanderbilt Min-		S. G. Knott	D. Spedman Alvin Stump A. G. Templeton Dayad Vaugn
ing Co	*	A F Monell	pavid vaugh
Guston Ltd. Mining Co	) 24	J. T. Murray	CYPSUM
ing Co Guston Ltd. Mining Co National Belle Mining	4	C. J. Pate	
Silver Ledge Studient		C. J. Pattridge .	Denver Gypsum Co Denver
Mining Co.		S. B. Shultz	IRON
Vankee Girl Mining Co.	. **	II. S. Hickox Summit Park	B. W. Lewis Gunnison
Silver Ledge Syndicate Mining Co. Vankee Girl Mining Co. A. P. Adams	Rico	Seymonr Johnson	B. W. Lewis Guunison J. M. Duckert

426 THE MIN	ING DIRECTORY—SUPP	LEMENT.
NAME POSTOFFICE	IRON	NAME POSTOFFICE
	NAME POSTOFFICE	Glen Alice Phosphate Co. Bay Hill
Gem Mining Co Hillside Jas. A. Brown Meeker Frank Hoffman. Osier	Lathrop M. & Red. Co Hartford	Baldwin Phosphate Co., Blue Springs
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Mary Mary Lawrence	Forbes Ore Bed "	
Wm. Brown. Jamestown Chas, Kelley. Ridgeway J. A. Stuart. Pohl & Co. Robinson D. H. Lewis Sargeuts	Geo. H. Burgess New Haven Brook Pitt Mining Co Ore Hill	phate CoCitra
Pohl & Co Robinson	Chatfield Mining Co "	Cleveland Phosphate
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MICA	C. B. WoosterAnsonia	Co
	Frank Armstrong . Bridgeport Bridgeport Quarry Co	
New Mexico Miea Min- ing Co	P Carroy	Dunnetton PhosphateCo. Dunnetton EarlyBird PhosphateCo. " Evans & Hubbard"
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T. R. Owen " Ed. Williams & Co	Seth Belden & Son Hartford Alexander Dallas	Wacasassa Phosphate Manufacturing Co Diamond Phosphate Co. Istachatta Imperiat Phosphate Co. "
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W. Fredate. T. R. Owen Ed. Williams & Co. J. N. Williams Dunderborg Mine Douglas Lava Co. Colorado Springs Orlando Metcalf. Stewart Stucco & Ce- neent Co Date Baytron. Cortez	Scoville & Murphy	
Orlando Metcalf"	Scoville & Murphy. T. M. Clark Milford Opie & Cuddy Mystic Trevena Bros	bhateCo
ment Co "	Trevena Bros	Clarkson, Robertson&Co. " Florida DevelopmentCo."
	John Hunna New Britain C F Stoll New London Booth Bros New London Booth Bros New London Booth Bros New London Wante Bayled McNaughton Milstone Granute Co White Granute Co White Granute C Norwich O. F. B. Jurge Norwich O. F. Gilison Oneco Gorman Bros S Manchester J. W. Boswell Sterling Branford Granute Co Stony Greek	Little Bros. Fertilizer & "
James Boyle De Beque Cherry Red Sand Stone Co Denver	Booth Bros Niantic	Phosphate Co " ManhattanPhosphateCo. "
Donglas Stone Quarry	Mullstone Grante Co	Pebble & Soft Phosphate Co Kendrick
1510 Seventeenth st.	White Granite Co "	Florida Pebble Phos-
Mexican Ouyx Co "	F. B. Durfey	phate Co Kissimee Lacovochee Phosphate
Consider the control of the control	O. F. Gibson Oneco Gorman Bros S. Manchester J. W. Boswell Sterling	U0 Lacovochee
Houser & Rea Dolores G. W. Atkinson Florissant		Argyle Phosphate Co . Lake City A. A. Scott Lakeland
G. W. Atkinson Florissant Stout Stone Quarries Ft. Collins	J. N. Derble & Co	Citrus Oneen Phosphate
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J. Simmons		Gem Phosphate Co N. & S. Alifia River Phos-
Coppenger, Jackaway &	DEL STADE	phate Co
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T. J. Montgomery "	Co "	Pawasoffice Phosphate & Mining Co
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Dick Tovy Meeker Sam C. R. Acker Monarch	FLORIDA	Phosphate Co
Newcastle Kaolin Min- ing & Mfg. Co Newcastle	PHOSPHATE	Hernando PhosphateCo,Oriole
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A. T. Roys	Compagnie des Phos-	W. L. McDonnell
Porter Coal Co Porter	Compagnie des Phos- plates de France " Mullen & Meadows Co. " J. W. Roberts Phosphate "	OrangeCo.PhosphateCo.  J. B. Parramore  J. H. Dean Palatka Shell Mound Phosphate
d. C. Hamjine		Shell Mound Phosphate
J. W. McCaslin "	Royalty Phosphate Co	Works Panasoffkee Eureka Phosphate Co Pemberton
R. Toney Ridgeway	Smort Phosphate Co	B. M. BrannerPeru Phosphate Co. of En-
J. Hocking Rockwood	Atlanta & Florida Phos- pliate CoAreadia Alifia River Phosphate	
R.W.English Lumber Co.Sahda WesternOnyx MarbleCo.	Alifia River Phosphate	G. A. K. Stevens
	Berkley Phosphate Co	Phosphate Co St. Augustine Wekira Phosphate Co Sanford
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Hy. Alexander	Frank Hughes "	Co Fallallassee
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E. C. Barrick Bridgeport Austerlitz Gold Mining Co Norwich	Tennessee & Florida	Callosatchie R. Phos- phate Co. Tampa CA. Hays. Peru Phosphate Co. Sterling Phosphate Co. Trenton Phosphate Co. Trenton Phosphate Co. Trenton Co. Trenton Phosphate Co. White City Lord & Peck Winter Park De Sofo Phosphate Min- Dig Co. Zoff
Mine Hill Quarry CoRoxbury Station	Land Co	nig CoZolfi

THE MIN	NING DIRECTORY—SUPP
GEORGIA	NAME POSTOFFICE Michigan Mining Co Bellevue Oneen of the Hills Min-
NAME POSTOFFICE Tooder & Rames,Villa Rica	ing Co
Pranklin Gold Mine., "Creighton Stony Ridge Gold Mine., Sandersville Magrader Gold Mines, "Washington	NAME POSTOFFICE Michigan Mining Co Bellevue Queen of the Hills Min- ing Co " Relhef Mining Co Bolse City Idaho Improving & De- veloping Co Bonanza City Badger Mining Co Bonanza City Badger Mining Co Bonanza City Badger Mining Co " Caray Mound Mining Co." Caray Mound Mining Co." Hinded Treasure Mining Co."
IRON	Gray Mound Mining Co Hinded Treasure Mining Co Hone Mining Co
Chattahooche Iron Co. "Canton Hematite Mining Co. "Cave Spring Hematite Iron & Mining ——————————————————————————————————	Lucky Boy Mining Co
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Southern State Co  SOAPSTONE Atlanta Tale Mufg. Co Atlanta	Jas. McCullough Alex. McLeod J. P. Marlatt Dan Osgood
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Oglethorpe & Elbert Blue Grante Co Atheus Liddeil & Johnson Atlanta 12 Lloyd St. 13 Lloyd St. 14 Lloyd St. 15 Lloyd St. 16 Lloyd St. 16 Lloyd St. 17 Lloyd St. 18	Frank Leptey Ed Moss Carl Neitzell James A. Pack
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J. R. Hightoner . Monticello	Co McKallap Bros Plucuix Co Plucuix Co Plucuix Co Bouldert reck MiningCo.Fry Bouldert reck MiningCo.Fry Black Lead M. Co Genesce H. J. Bundy Peter Hagan Peter Hagan L. J. Bundy L. J. L. J. J. L. L. J.
[]) \ []() COAL BITUMINOUS	L. Jacobson L. J. Johnston Chas. Sampson J. L. Schuttis
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W. H. Balley McAuley Cook & Hermann C. Degroff " dos. Fitzquin . " Theo. Faist "	H. J. Bundy Peter Hagan P. Jackson L. Jackson L. J. Johnston Anstin Placer Mining Co. Haley Amis Placer Mining Co. Johnston L. J. J. Johnston L. J.
Theo. Fanst Win. Fanst COLD AND SILVER	Mike Carey Ketchum A. H. Dollarhide Stank Fulford Seenhow & Rumsey
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C. Hurst Joyce & Waters C. B. McKinnon V. Millech Vow Bunner & Gill Reed & Clark Bellevue King MmingCo.Bellevue	Henry Gilbert

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J. C. Rasberry.	
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R. J. Rutter.	
Wm. Sutherland	
J. W. West	
Sierra M. & M. Co.	Millan
Potlatch Mining & Mill	Massagn
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Martin Curran	**
Win, Daxon	
Gold Queen Co	**
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Sierra Mining Co	
A. W. Steele	**
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Buckeye Mining Co	
Golden King Mining Co Ida Mining Co	
Occident Mining Co	
Treasure Box Mining Co	
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Frank Given	
Tom Kakertz & Co Martin & Needbann	**
Clipper Mining Co	Nieliolia.
Viola Mining & Smelting	r.
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Jas. Cooper	
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C. Anderson Co	.Placerville
H. Asheroft	
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Henry Reid	
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D. E. Coughanour	**
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John Diekenson.	**
M. Driscoll William Hamilton	**
Anton Selvia	16
Patrick Sheridan	4.4
S. Smith	Rocky Bar
Shoeder Mining Co	11 1111
Wide West Gold Mining	
P. Salmon Placer M. Co.	Salmon City
C. Johnston & Co	Saw Tooth
Saw Tooth M. & M. Co	
Eureka Cons. Mining &	
Construction Co	Seona
rown Mining Co., Ltd.	Wallace
Co	**

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Davey & Son . Wallace			Sprague & Niekels Wm. Maddox Wm. Maddox Wm. Maddox Hawrence Ferher C. Strawbinger Patrick Powers Heriden Coal Co. A. Lowell Martin Ayers Heriden Coal Co. Hawrence Heriden Coal Co. Hawrence Haw	Fredonia
Heekle Mining Co.	A. Swanson Jeffrey Bros Grover & Sons	. Campbell Hill	Wm. Maddox	Freeburg
J. M. Long	Pat Linden	* (4)(1)(1)	Lawrence Ferber	" mage
Heekle Mining Co. Porter Bress	Charles Minett	**	Patrick Powers	Galesburg
J. C. Hill "	Charles Savil	Carbon Pluff	Heriden Coal Co	Galva
C. W. Walker "	Wm. G. Bartells.	Carbon Bluff Carlinville	Martin Ayers	. Gilchrist
IRON	T. J. Loomis Carterville Coal Co.	Carterville	M. M. Green	Grane Creek
Idaho Aluminian Min-	Geo. McMath	41	Wm. G. Sanders	
Idaho Aluminum Min- ing & Mfg. Co	Evan Jones	Cathn	J. Blakely	Grasse Creek
LEAD AND ZINC	Thos. J. Jones		Buntling Bros	A1
Bellyiew Mining CoBellyiew	Eli Sheperd		Co	Greenville
GrumucMooreMiningCo. " Callow Bros Clarks Forks	Chas. Trill	Chesterfield	Wm. Bough	Harrisburg
CarbonateMt.MiningCo. "	Star Coal Co W. R. Sufferin A. Bro	Chesterfield Coal City	Alex, Daniels	
Mining Co "	Wm. Cook	. Coal Valley	Wm. Horrocks	
J. F. Wenton & Co " True Grit Co Fort Lembi	Park & Hillier		Joseph Moody	
Thos, CosgriffMcAuley	Wm. Pomperme Wm. Sackville	**	Lewis Dillon	Humrick
Cheque Magms	Robert Summerson	. **	T. Burdick	Industry
LEAD AND ZING Bellview Mining Co. Bellview GrummeMooreMining Co. Callow Bros. Carloon Edward Claime Allow Bros. Charks Forks Carbonate All Mining Co. Mining Co. J. F. Wenton & Co. True Grill Co. Fort Lemhi Thos. Cosgriff. Me Auley Cheque Magnis. Me Auley Cheque Magnis. " Mike Sinelair. " Mike Sinelair. " Mike Sinelair. " Frank Bedke. Oakley Argentine Mining Co. Usborn E. A. Bevis. "	Fred Vonach		Jasper Burch	. Island City
Argentine Mining Co Usborn	Coffeen Coal Co	Cofteen Colchestor	Vather Atkinson	Kangley
Argentine Mining Co Usborn E. A. Bevis M. B. Campbeil Wallace Nathan Elliott Wardner L. Shankling Co Wardner L. Shankling Co "G. A. Trumbull "	Saml. Bright		Bates Bros	. Ite water
Nathan Elliott Wardner	Colchester Coal Co Gibson & Smith	***	B. Kuley	
L. Shanklin.	Reed Gordon		Orlando Libby	
G. A. Trumbull	Gordon & Barrett		Martin & Tucker	
STONE, GRANITE, MARBLE AND ONY	Wm. Hodgson		Joseph Price Wm. Poole	Kiekanoo
	S. Justin	**	F. Fahnestock	Kingston Mine-
G. L. Kaicher & Co Nampa Jos. Beck Oakley Chas. Eleason	Lewis Lewis	**	Newsom Bros	44
Chas. Eleason "	Wm. McIntosh Joseph Moon		New Kinmundy Coal ( Bryner Bros	o.Kinmundy Kirkwood
	Benj, Nelson	"	Geo. England	Knoxville
ILLINOIS	John Pearson		Nelson & Anderson	
	A. Swanson Jeffrey Bros Grover & Sons Fat Linden. T. H. Laikey Charles Shivil. Silvis Bros. Wm. G. Bartells. T. J. Loomis Carterville Coal Co. Geo. McMatth Consumers Coal Co. Frant Johnsen. A. Olinstead El Sheperd Fittinger & Davis. Chas. Trill. Star Coal Co. W. B. Smiterin & Bro W. G. Sartells Tittinger & Davis. Chas. Trill. Star Coal Co. W. B. Smiterin & Bro W. Gurry Park & Hiller Wm. Pomperme. Wm. Sackville Robert Summerson Thombey & Lewis Lewis Atklinson. Samt. Bright. Colchester Coal Co. Gibson & Smith. Reed Gordon. Thos. Gordon W. Sartells Wm. McGardon Wh. Sackville Robert Summerson Lewis Atklinson. Samt. Bright. Colchester Coal Co. Gibson & Smith. Reed Gordon. Thos. Gordon Wh. McGardon Joseph Moon. Benj. Nelson. Joseph Moon. Joseph Moon. Joseph Moon. John Hunter Columbia Mining Co. John Johnson. John Mallen Columbia Mining Co. Jas. A. Covey Jonnille Mining Co. Jas.	**	C. E. Rerg	Kramm La Favette
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Isroel Shawgo Aledo	Peter Bull,	Cuba	J. S. Brinkley	Leamington
Alton S. & T. B. CoAlton Junctio	n John Johnson	Umbleren	Bermett Coal Co	Lebanon
Thomas Frew	Geo. W. Benson .	Danville	Hy. Florin	
Auburn Coal Co Auburn	1, Braceville		Wm. Allison	Liverpool Loding
Augusta Coal Co Augusta	Jas. A. Covey		John Hynd	Landon Wills
Samuel Jones "	Hy. Dittman		John Berry	Macomb
Willis Cloufton Avon	Kellyville Coal Co	·	J. O. Shaughnessy	Mapleton
Mark Whitehead Babylon Banner	Llewellyn & Son	**	Chas. Howard	. Marietta
A. Williams	Wm. Shaffer		W. M. Reid	Marion
George Keilar & Co	John Swanson J. H. Toph		Johnson Coal Co	Marissa
Walter Treasure Pelleville	John Motley	Delhi	New Enterprise Coal	l'o. "
Electric Light & Coal Co.	J. Winchell	Duncan Mills	Carney Bros	Marseilles
Enterprise Coal Co	Richard Baillie Enterprise C. & C. C	о. Он Qион	James Beatty J. Harding	Mascoutah Middle Grove Milan
Chae Bartuan	Jacob Schmidt	East Peoria	Pat. McCarty	Milan
John Hurst "	Wm. Harper	Edwards	W. M. Reid. Wm. Rev. Johnson Coal Co New Enterprise Coal Co New Enterprise Coal Co Thisdorf. Carney Brus James Rearty James Rearty Jaylid Walsh Hy, Fowler Union Coal Co Fred Van Velzor Consolidated Coal Co John Seet.	Millersburg
LebanonCoal&MachyCo. "	Wm, Lonsdale		Fred Van Velzor	Millstadt Mineral
Louisville & Nashville	Richard Pillmann Wolf Bros Coal & V	din.	Consolidated Coal Co	Mission Field Moderia
Oakland Coal Co "	ing Co	Edwardsville	Jos. Willeford	. Monica . Monmonth
George Renther Nicolas Weiss	P. Wonderby & Co Cox & Harris	Elkville	John Moulton	. Monmonth
P. O. Heiler Bernadotte	Elmwood Coal Co	Elmwood	Wm. H. Pople	**
H. Kable Bethalto	Wm. Hargraves	· taquanty	Andrew Welch	
John Spence	Fairbury Co	. Exeter Fairbury	Wm, Owens	Moro
Wm. McDonald Blair	Geo, Emmett	Fairmount	Wm. Richardson	
Joseph Dodds . Blandinsville	J. Winchell, Richard Baillie Enterprise C. & C. Jacob Schmidt, George Wieland, Wn. Harper Chas. Kingsiey Wn. Lonsdale Wolf Hros. Caul & Y Long Co. P. Wonderby & Co. Co. & Harris Elmwood Coal Co. Brightner & Baldwin Wn. Hargraves Elhu Arnitage Geo. Emmett, Fairmount Coal Mr. Co. J. Aberthyskey.	ing.	consolidated Coal Co John Seott, Joss, Willeford, Thos, Hubbard, John Moulton Wm, H. Pople, Thomas Swan Andrew Welch Green & Monahan Wm, Hebratison, Wm, Wikhming, Alexander Bell Geo, Blair Jas, Cryver, Frank Gillbride, Hy, Kay	. Morris
Miners Coal Co Braidwood	J. Aberduskey Josiah Karr	. Fairview	Jas. Crycer	
Jas. Davis Breed's	B. T. Melick		Frank Gillbride	
M. Burns Brighton	Wm. Richman	Fancher	John F. Nelson	. 0
John Cotton Brimfield James Duffy Brimfield	John A. Emons	Farmington	Alexander Telfer George Wren	
G. W. Longden	Farmington Coal Co.	34	Union Coal Co	Mt. Pulaski
Thomas Press Brick Co Brussels	Elisha Webster		Simms Bros	Murrayville
Ashton Coal Co Bryant Bunker Hill Coal Co. Bunker Hill	John Williams W. Channelsworth	Fiatt	Camman & Morris Bro E. W. Riley	s .Nashville Neponset
Enterprise Coal Co. Groom Bros. Coal Mine Co. Chas. Hartman John Mirst John Khes Coal Co Oakland Coal Co George Renther Nicolas Weiss P. O. Heller H. Kable H. Kable H. Kable H. Kable H. Kable H. Morris Joseph Houds Daniel Phenix Daniel Phen	Fairmount Coal Mn Con, J. Aberdinskey, Josiah Karr, B. T. Melick M. J. Stout Wm. Richman Thos. Barton John A. Emons, Farmington Coal Co. C. M. Mapilewood & C. Elisha Webster John Williams W. Channelsworth Hill Bros.		Frank Gilbride Hy, Kay John F, Nelson Alexander Telfer George Wren Union Coal Co Bryden C, & C. Co Simins Bros Cannan & Morris Bre E, W. Riley J. Dupont.	New Burnside

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NAME A Cogalill. A Cogalill. A Cogalill. A P Garlson. City Coal Co Chas, Drawyer. Thos, Cowling. A Pierre & Co. Consumers Coal Co. Also phi Engly. A Commerce Coal Co. Asserbit Engly. A Pierre & Co. Consumers Coal Co. Asserbit Engly. A Pierre & Co. Asserbit Engly. A Pierre & Co. Asserbit Engly. A B Rainett W. R. Serivier. F Lowers F Lowers F Lowers Wheeler Bros. Almes Green W. H. Elliott A Leonard M. H. Smith B. Balderts Wheeler Bros. Almes Green W. H. Elliott A Leonard M. H. Smith M. Banderts Win. Arnold Alss. Aberley Elward Brost W. M. Arnold Alss. Aberley Elward Brost W. M. Arnold Alss. Aberley Elward Brost W. M. Arnold Mrs. Abolin Louch Masterson & Keefe A. W. Molatt Henry Mohn Mrs. Kolin Louch Masterson & Keefe A. W. Molatt Henry Mohn Mrs. Kolin Louch Mrs. Mohn Mrs. K. Wol Molatt Henry Mohn Mrs. K. Wol Coal Mining Co. Cabanis & Oxford A. E. Estell & Co. Levi Hohimer Win Rice B. Burkhead Weir & Livel Gen, Healthcock W. Rice B. Burkhead Weir & Livel Gen, Healthcock Gen, Healthcock Frockhouse & Parker Ruins & Coal J. W. Moser Rentehler Coal to Rentehler Coal John Zegler & Co. A. Llovd & Son J. W. Moser Rentehler Coal How Kright Rentehler Coal How Kright Rentehler Coal How House How House Health Sould Health	POSTOFFICE	N.
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Wheeler Bros	Oseeola	()
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Jas. Aberley.	Peoria	J. 1 G. 1 H. Jan Jan
Edward Brost		Jan Bai
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John Glen		Pet
Mrs. John Louch	10	Jon Pet We Kie Wh The H. Jan Ric Jol
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Henry Mohn Mrs. K. Mohn	**	H.
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Andrew Walton Brockhouse & Parker	. Putnam	1.4
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J. W. Moser Rentebler Coult o	**	
Springfield Coal & Tite	Co.Ridgely	- 11
Walton & Kay	. Rock Island	
Jas. Bigley Richard Carrollton	Roodhouse	St. Ho
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Thos Lee	**	Ch 1
A. V. White	** ***	
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Joseph Fleming Kelly & Co	Shelbyville	(. М:
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Cyrus Wright		
G. B. Boyd Geo. F. Gerback.	Sparta	
R. H. Rasborough	**	H

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Central Cooperative Coa	1
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E. B. Dawson,	Streator
Marshall & Simpkins	**
C. A. Munee	**
Nelson & Westerbund Pleasant Hill Coal Co	4.5
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River Bank Coal Co	**
Sylvester Kirnes	**
J. D. Bankert John A. Van Winkle	Simmun
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Barbour & Sons	Tamaroa
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Oscar Bass J. H. May	Tunnel Hill
G. E. Morgan, H. C. Mackley	Vandercook
H. C. Mackley	Vandercook Villisea Viola Vataga
James R. Parks	Viola
James Dusenbury Bangston Claus	wataga
Jonas Frome	
Poter Knight	14
Wesley Coal Co	Wesley
Wesley Coal Co Kiekapoo Coal Co	Westville
Whitehall Coal & Tile C	o.Whitehall
Thos, Wyatt	
H. McGüire.	Winchester
dames Higbee	Wyoming
Richard Howarth	
John Price Robinson Bros.	11
Stephenson & Watson	D.
Joseph Swanson	**
Joseph Swanson Hiram Thurston	
George Watson	
Thomas Lee jr.	Youngstown

### COLD AND SILVER

# IRON

West Duluth Furnace Co.Cheago Room 47, 46 La Salle St. St. Louis Ore & Steel Co.Murphysboro Hopkins Louden Roseclair

# LEAD AND ZINC

Chicago Lead & Zine Co.Chicago
H11 Chamber of Commerce Bids.
Columbian Lead & Zine
181 Dearborn 81.
Monarch Lead & Zine Co.
77 Commercial National Bank Bids.
Oswego Lead & Zine Co.
183 Hearborn St.
Robbins Lead & Zine Co.
183 H5 Monroe 81.
Robbins Lead & Zine Co.
184 H6 Monroe 81.
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Robbins Lead & Zine Co.
186 H6 Mining & Galleau
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#### MANCANESE

nternational Manganese Co Chicago Chamber Commerce

#### SALT

Holliday Salf to St. Johns

# STONE, GRANITE, MARBLE AND ONYX.

NAME	POSTOFFICE
Mat. Wagner	Aurora
Vermilion Sandstone Co	
Kankakee Stone Co	
C. V. Chandler	
Henry & Walter Croxtor	i. Pleasantview
Robert Leaman	
Western Plaster Works	South Chicago

# INDIANA

#### COAL BITUMINOUS

COAL BITU	VIINOUS
He distriction	Office leading
Market Burn Samuela Co.	Andonon
August Fuel Supply Co	Asharvilla
Hy, Chandler , Murts, Fuel Supply Co., Crawford Co., Crawford Co., Crawford Co., The Co., Crawford Co., Co., Crawford Co., Co., Crawford Co., Co., Crawford Co., Co., Co., Crawford Honger & Crawford Honger Co., Co., Co., Co., Co., Co., Co., Co.,	, C - 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C. Helton	
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Indian Creek Coul Co.	Bicknell
M.chael Legree	Bittluger
Dugger & Neal Coal Co.	Bloomfield
Summit Coal Co	
Deforest, Betzert & Dodds	Boonville
Robt, Gough	
W. H. Stone	11
Central Iron & Steel Co.	Brazil
Davis Coal & Mining Co.	**
Hoosier Coal Mining Co.	
Rock Run Coal Co	
Sherburnt oalMining Co.	
Watson & Little Coal &	
Mining Co	
WeaverCoal&MiningCo	
Ziller Coal & Mining Co	Attack Market
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Jas, Clark	
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James Ridelin	.Carbondale
Ed. Tomas	
Lyonton Coat & Coke Co	A RSS
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Sherman Kellams	Jasuer
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Joseph Robinson	Knightsvihe
Tiley Bros	Lodi
Mecca Mining Co	Mecea Mills Mineral City
W. M. Hatti-ld.	Mineral City
Wilson Coal Co	Montgomery
Wm. Robertson	Montgomery Newburg Petersburg
H. W. Alexander	Petersbu g
J. B. Boyer	
Bradfield & Son	
Joe Clendennin	
James dennie.	
T. B. Posey & Co	
C. V. Shandy	
E. F. Smith	
A. Ray.	Pimento
Tom Myers	Raglesville
Raglesville Coal Co	
J. C. Sterling	
Abe Stoy	13
James Stuffe.	1
Rockport Gas & M nora	Poultreet
Bradfield & Son Joe Clendennin James Jennie, T. B. Posey & Co C. V. Shandy E. F. Smith A. Ray, Tom Wyers Tom Wyers Messering	Rockport Rosedale Shelburn
Parke County Coal Co. Lofton Coal Co Jack Gamman. Ph. Gamman	Shallown
Lord Campen	Shoals
In Committee	11//11/2

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Packwood

Pella Pilot Mound

J. J. Voning
Consolidated (voil Co.
James Newell
James Newell
Brown & Bowers
Henrietta Coal Co
Lone Star Coal Co
Mystic Block Coal
Keyell
Lower Mystic
Co
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Affred Lester
Henry Walker
Rock Island Block Coal
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J. G. Davis
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Fredrie Grand Junction

	MINING DIRECTORY—SI	UPPLEMENT.
NAME POSTOF:	FICE NAME	
Tom Alexander Staunton J. F. Anderson Eli Annan John Bailey Joe Barker	TOSTOFFIC	John Wilson Chariton Chisholm Coal Co. Chariton Chisholm Coal Co. Chisholm Clieshard Coal Co. Cashisholm John Coal Co. Cashisholm John Coal Co. Cashisholm John Clock Complete County Line Amos Taylor Martin Fisher Dedta Hickinan & Chandler Hickinan & Chandler Hickinan & Chandler Hickinan & Chandler John Raney John Raney Des Moines Coal & Min- Polk Co Coal&Mining Co. Union Coal & Mining Co. Union Coal & Mining Co.
J. F. Anderson Ell Annam John Railey Joe Larker Larker Larker Larker Larker Larker Lames Hart Will Couper John Cook Paul Derleio David Edar Ora Hains Jos. Hatter Lames Hart Lam	F. J. Scholtz Evansville	John Wilson Chariton
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Southern Indiana Via Washington	Romona Oöbte Stone Co	G. W. Butler Fanslers
ing Co.	IndianaOoliticLimestone	Ketcham Bros. Farmington
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Co. Geo. H. Linsborger West Union C.C. Crow Wissow Ed. Holion Wissow Thos. Hurst Logan Robling M. O. Thompson Lee Mannes Godfrey Sheyer Wrthington Ell Stalen H. D. Watts	Terre Hapte Stone Co Terre Hante	W. C. Quigley Florie
C. C. Crow. Winsow Winsow	T. W. Bridges, Wabash	Soap Creek Coal Co Foster
Ed. Hollon	Lonis Halderman "	Dale & Goodwin
Logan Robling	J. S. Lambert	Atlas Coal Co
M. O. Thompson	Theo. Hulman Waveland	Felix MagtinJamestown
Lee Wanners	Henry Hereks West Baden	Bennett & Flair Felix Mactin Robert Williams
Godfrey Sheyer Worthington	Jacob Bedlinger ir Zinn's	Carlson & Co Kalo
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11. 15. Watts		Wm. Gamble Kirkville Knovville
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Rhodes & Campbell Co., Indianapolis Rock Creek Mining Co., Rockfield Compromise Natural Gas Co., Windsor	$A^*WO1$	A. Smith & Son. Lehigh
Rock Creek Mining Co Rockfield	COAL-BITUMINOUS	A. A. Hooyer Leighton
Gas Co Natural	J. Brower	B. B. Parker
or windsor	Ward King	Knox Bros Livingstone Knox Bros Madrid
LEAD AND ZINC	J. Brower Ward King Albia Frank White Frank White Follow Augus Mike Pellow Kiese Follow	David Fry Marysville
Carroll County Zine Min-	Mike Feith Angus	Andy Conners Milo
ing Co. Logansport Oakland Cy, & Coal Co. Oakland City	Keystone Coal & Mining	James Gilbert
Oakland City	CO	L. Hinan
SIONE, GRANITE, MARBLE AND ONY)	Lewis Whitlateh Attica	E. Richmond
T. al. Alford	Joseph Moyle Avery	Batey & Jones Milledgeville
A. Payne Adordsville II. Ritsell Asherville	Isaae Clark Bayard	J. J. Young
J. Slack	Moses Lewellyn Rencon	Consolidated Coal Co. Muchacknock
	O. Mayors. Blakesburg	James Newell
American Onyx Co. Bedford Chicago & Bloomington Stone Co.	Clark & Floebard Co. Boonsboro	Henrietta Coal Co
Stone Co	Hill Garden	Lone Star Coal Co
Vinn, rumean & Co.,	Mike Feith.  Keystone Coal & Mining.  Co. Samuel States. Attica Lewis Whitlatch. Joseph Moyle. Avery Made Chirk. Bayard Moses Lewelly. Moses Lewelly. Beacon O. Mayors. Blakesburg Clyde Coal & Mining Co. Boonsboro Clark & Flochard Hill Garden. H. E. Hall. Melbirnie & Nelson John Marshall & Son John Marshall & Son John Marshall & Son John Marshall & Son John Marshall & Co. Tipton Coal Co. Tipton C	Nathan Faster
Housier Stone Co	John Marshall & Son	Robert Evans Newmarket
Louisville & Bedford	R. Campbell Brazil	Wm. Evans
Stone Co	Tinton Coal Co	Alfred Lester Newton
Spider Creek Stope Co.	R. Briscoe	Henry Walker
Tanyard Stone Co	Jacob Amon . Carbon	Rock Island Block Coal
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Eigenmann& Hollerbach	George Hardin	W. Hull Oskaloosa
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McBirnie & Nelson John Marshall & Son R. Campbell Philby Coal Co	Reagil
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Tipton Coal Co	
Jacob Amon J. Colen Cullen, Reece & McKee,	Prisono
Jacob Amon	arlon
J. Colen	11 110/11
Cullen, Reece & McKee.	**
George Hardin William Hill	
William Hill	
John Wilds	**
wittam ffill John Wilds John Wilds J. Willes W. W. Hoover Centerville Coal Co Vational Coal Co	h s
W. W. Hoover	arbonado
Deep Vein Coal Co	edar Rapids
Centerville Coal Co C	enterville
National Coal Co	**
E. J. Richardson	41
Star Coal Co	44
Star Coal Co Standard Coal Co Standard Coal Co. James Hotel	
waitint Block Coal Co.	**
	hariton
Williamson & Bros	**

Cayuga Clay City

Collingdale

Corydon Dale

John Clearwater Cannelt Eigenmann& Hollerbach Eigenmann& Hollerbach F. F. Paullin & Co. Chicago& IndianaBrown Stone Co Carbon Enreka Coal Mining Co. Carbon Co. Carbo

Leo Brandenhurg. Louis Chamberlain, W. R. Muncee H. H. Black Corydon Stone Co Jas. Whitten

NAME Lon Greenlief Lon Greenli		
Chas, Cordis.  Rippey Coal Co.  Thos, Seevers S. G. Houser. Chas, Hann. Wm. Bennner. Ed. Lord Lumsden & Bros. B. C. Sammons. Thornburg Marissice & Condonlough, Villsea Nathan Wileov N. H. Nash Chas, Blanckguart. Unit Cheer John Blatt.	NAME	POSTOFFICE
Chis, Cordis Richland Rippey Call Co. Thos, Seevers S. G. Houser Seymore Chas, Hann. Shambaugh Wm. Bennner. Ed. Lord Lumsden & Bros. H. U. Sammons Thornburg Rurnside & Conlonlough Villsea Nathan Wileov N. H. Nash Wahnut City Chis, Blanckguart What Cheer John Blatt "	Lon Greenlief	Prairie City
Rippey Coal Co. Rippey Thos, Seevers Rose Hill S. G. Houser		
S. G. Houser	Rippey Coal Co.	Rippey
Chas, Ham. Shambaugh Wm. Benmer. Summerset Ed. Lord Lamsden & Bros. B. U. Sammons. Thornburg B. K. Chandons, Condonlough & illsea William Wiley. Walmut City Chas, Blanckgoart. Walmut City John Blatt.	Thos, Seevers	Rose Hill
Wm. Bemmer. Summerset Ed. Lord Lumsden & Bros. D. U. Summons. M. Kelly. Burnside & Conlonlough, Villsea Nathan Wileox N. H. Nash Walnut City Chas. Blanckguart. What Cheer John Blatt. M.	S. G. Houser	Seymore
Ed. Lord Lumsden & Bros. D. U. Sammons Thormburg Burnstele & Commons Ramstele & Commons Willea & Walmut City Chas. Blanckgoart What Cheer John Blatt.		Shambaugh
Lumsden & Bros. D. U. Summons. M. Kelly. Burnside & Conlonlough, Villsea Nathan Wilcox N. H. Nash Wahnut City Chas. Blanckguart. What Cheer John Blatt.		Summerset
D. U. Simmons. M. Kelly, Thornburg Barmside & Conlonlough, Villisea Nathan Wilcox N. H. Nash Walnut City Chas, Blanckguart, What Cheer John Blatt.		**
M. Kelly. Thornburg Burnside & Conlonlough Villsea Nathan Wileox N. H. Nash Walnut City Chas. Blanckguart. What Cheer John Blatt.		**
Baruside & Contonlough, Villisca Nathan Wilcox		**
Nathan Wileox	M. Kelly.	Thornburg
N. H. Nash Walnut City Chas, Blanckguart What Cheer John Blatt		h, Villisca
John Blatt "		**
John Blatt "	N. H. Nash J	Walnut City
	Chas. Blanckguart	What Cheer
Job Smith & Rowley		
	Job Smith & Rowley	"
COLD AND SILVER	COLD AND	SILVER

Little Tycoon Mining Co. Burlington
Columbus Mining Co Cedar Rapids
Tenta Duras Mining &
Milling Co. Cherokee
Matoa Gold Mining Co Council Blufts
Minnesota Consolidated
Mining Co Davenport
E. T. Goldthorp Dubuque
Iowa Mining Company .Ft. Madison
Merchants Gold Mining
Co Keokuk

#### CYPSUM

Ft. Dodge Gypsum & Stucco Co., . . . Ft. Dodge

#### IRON

Burlington Investment
Co. Burlington
Dubuque Ore Concentrating Co . . . Dubuque

# LEAD AND ZING

	differ retove
Charles Isborn	4.4
Daykin Bros .	1.0
James Lockey	**
Luther & Uterleh	**
Theodore Meyer .	**
George Mollart.	4.4
Chas. Odermott	4.6
J. Loftus I	Burlington
	'edar Rapids
W. H. Guilford C	entre Grove
W. P. McGulre B	tedfield

# KANSAS

### COAL BITUMINOUS

Englevale Coal Mining & Developing Co—Englevale

### COLD AND SILVER

Goodland	Mining		
ing ('o			Goodland
Tower Loc	le Minii	ig 1'o.	Kungman
Pittsburg	Mexica		
ing Co			Pittsburg
Comstock	Mining	Co.	Stockton

# LEAD AND ZINC

LEAD AND	ZINC
Galena Lead & Zinc Co. l	Empire City
Banner Mining & Mill-	
ing Co	Jalena
Illinois Lead & Zinc Co.,	
Jenkins & Co	6.0
Kansas Lead & Zinc Co	**
P. C. Milliken	
L. K. Moulder,	
Jane Murphy	
Murphy & Murphy.	
An instruct of the	
Oviette & Co 1	
Page & Co	
E. N. Perry.	
Phillips & Co	**
Moll Reed Paint & Min.	
Co	
R. Robinson,	**
W. Smith	
O. Sparkes	
State Line Mining Co	
Stice & Shume	
J. T. Vest.	
E. C. Weilep.	
Windsor Mining Co	
Design Many Many Co.	
Bogie Man Mining Co .	Man Sisting

NAME	POSTOFF
New York Mining	
Smelting Co	
Idaho Mining Co	Salina
Occidental Mining Co	Wier City

### SALT

Central Salt Works	Hutchinson
Crystal Salt Works.	**
Diamond Salt Co	**
New York Salt Co.	**
Pennsylvania Salt Co	1.6
Queen City Salt Co	4.6
Riverside Salt Co.	
Western Salt Co	
Crystal Rock Salt Co	Kingman
Crystal Salt & MiningCo	i, 11
Moore Salt Co	
Pioneer Salt Works	**
Rock Island Salt Work	s **
Truesdell & Grimes Roc	k
Salt Co	Lyons
A. J. Bowen	Wellington
Wellington Salt & Mn	1-
ing Co	

# STONE, GRANITE, MARBLE AND ONYX

STONE, UNANI	IE, MANDLE AND ON
N. E. Warren	Bunker Hill
I, R. Griffith.	. Kingman
Becott Gypsum	% ('e-
ment Co	Salina
Peerless Cement	Plaster

# KENTUCKY

# COAL BITUMINOUS Wm. Herrald Aberdeen

wm, nerraid	Tuckfield
M. Adams .	Adams
J. R. Dean, T. L. Dooley W. E. Dooley, W. S. Grubb, T. L. Moore	
T. I. Dondon	**
11. 12. 13. 14.	
W. E. DOORCY.	
W. S. Grubb.	**
T. L. Moore	**
John Riddle	
t des Control	
John Spencer	
Joshua Bellamy	Etnaville
D. Allen .	Alphoretta
Hopkins Allen	
A. Crisp	
A. Crisp	
E. S. Dingus.	
James Dingus	
Nancy Dingus	
Ladar Hallmant	
John Holbert Geo, May Jack May	
Geo, May .	
Jack May	
Reph. Osborn	** .
Thomas Osborn	
I Hollists Osborn	
A. M. Combs Wm. Norton,	Ammie
Wm. Norton.	Andrews
Samt Casteel	Annville
at W. Lahaman	
Sami, Casteel G. W. Johnson Kentuck Iron & Co	
Kentuck Iron & Co	RH .
Manufacturing Co.	Ashland
Mrs. S. A. White.	**
Wm, Blevins	Back[Bone
tent, Divernies	Little K' HOUSE.
James Booth	
James Clark.	. **
L. 11. Cla/k	
John Creech	4.1
Today Cillians	4.5
John Gillum	
Robt, Griffith Wm. Marshall Peter Mays	
Wm, Marshall,	
Potor Mays	+ 5
James Porter J. C. Porter W. T. Rivers John Sloas	
aames Furter	
d. C. Porter	
W. T. Rivers	
John Sloas	44
Salar Standardton	
Silas Stephelton. Wm. Stephelton. D. F. Webb A. L. Wheeler E. W. Baker Hen. Baker	
Wm. Stephellon	
D. F. Webb	
J. I. Wheeler	
R W Bulcon	. Baker
12. W. Dalker	. 4 14 4 4 4 4
Hell, Daker	
W. D. Collins . Allen Hall .	
Allen Hall	**
Bon Hall	
The Hall	
thos, man	
Isaac Potter .	
Ben Hall, Thos, Hall Isaac Potter Jas, Vouts W. B. Arms Wm. Candill M. J. Candill	14
W. B. Arms	Barnett's Creek
Wm. Condill	Day here s creek
Maria Cantelli	
M. J. Candill .	
W. L. Lewaster	**
D. F. May	4.4
Innes M Palulyro	
dames at termiey .	
W. L. Lewaster D. F. May James M. Pelphrey Dr. N. Pickleseiner Wm. Picklesman	**

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M. Witten.	.Barnett's Creek
Beattyville Coal Co.	Beattyville
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A. J. Hamilton.	**
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R. A. Bennett .	**
S. A. Bennett	
J. N. Hudson	**
John B. Rowan.	**
Ed. Cuyton	Beech Grove
A. A. Wilson	
James Musick	Bee Spring
John E. Stone.	**
Mac Howard	Bingham
P. M. Woolum	Rlaine
John H. Boggs	**
A. M. C. Burton	**
H. C. Evans	**
H. H. Gambill	
M. F. Gambill	**
John H. Holton	**
T. R. Moore	
C. L. Osborn	
M. M. Walter .	**
J. Williams	Tit
Ellas Canard	Boone's Camp
Elijah Fields	
Elias Meek	**
Marion Pack	*1
G. W. Perry	
James Ward .	Rooneville
G. Campbell	(hantit vitte
E. C. Duff	**
A R Lathert	
Samuel Herndon	
S. P. Hogg	
Jefferson Jett	
A. B. McGuire	
Stephen McPherson	**
Chas. H. Minter	**
W. A. Minter	**
H. H. Moore	**
Joseph Reynolds	**
A. C. Roland	
G R Pose	
L.C. Rose	
J. W. Scale	
Rich Bolton	Boreing
T. H. Jones	
W. H. Jones Clay Profits	
H. Woodyard	**
Wm. Townsend	Bowen
W. B. Brandenberg.	, Dark Clock
Lafayette Necley	**
Harvey Price.	Bungamba
Wm. J. Amburgey.	1,411114
Andrew Combs .	
Win II Day	
Samuel Francis	**
Geo, W. Johnson.	Doming Suring
Jos Hubbard ir	tatriting openigs
Jos. Hubbard sr.	
Wesley Hensley	**
Mrs. Emily Morgan	4.6
John Murray	District Manner
John B. Jones	pasit s store
S. W. Osley	**
Schyle: Patterson	**
John Vandeventer	
E. C. Williams	11
Andrew Moore Erank Rango	Busseyville
Robt, Benge	17,100
James Benton	Cancy
E. C. Dull. Joel Flamery A. B. Cilbert A. B. Cilbert A. B. Cilbert A. B. MeGoire Stephen McPherson Geo, Martin Geo,	
M. W. Ferguson	

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James W. Lykins "	Levi McIntosh "	Robert Rose	
Leborn Lykins	Jestis Riley	Zachary Taylor	
Wm. Lykins	Granville Spicer " William Strong "	Sam Wilson	Ezal
John Patrick	Ellioot Turner "	Heath Bartley.	EXC:
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C. Hann	John Davison	I. Conley Puring Kayon	
Richard Mays.	John Douglas	II. C. May	
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John Runion "	Mrs. Polley Stanley "	R. N. Green	r icition
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N. Collins Carson	W. J. Benson Davenport	A. J. Johnson	
X D Sexton "	F. Flowers	E. Johnson	
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David Cron.	W. Bishop Dawson	Ezekiel Wells	**
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G. W. Brown Catlettsburg	Hollis Nickell	E. Brown	Galen
J. C. Hopkins " Williamson Maning 8:	Harrison Wilson Deburd	Hy. Brown	**
Manufacturing Co "	Peter Ross De Koven	Jeft Burchett	46
Jas. Bassoms Central City	A. M. Allen Delaware	Hy. Candill Workson Candill	
Richmond County Coal	W. H. Johnson	James M. Green	
& Iron Co. " Frank Whitehouse	W. P. J. Blair Denver	Elizabeth Herrel	
Perry Gray Centretown	E. W. Fairchild "	Geo. H. Kimbler	
C. Kimbley,	C. M. Patrick	H. B. Litrell	
B. N. Strond "	A. J. Rice	Philip Picklesimer	
Thomas Williams Chembers	C. C. Rice " R. F. Sorgullin "	G. W. Rice	**
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E. Dayidson "	Hy. Boling Dixon	P. C. Williams	**
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Thos. Johnstone	Edw. Chestmit Dory	John M. York	Chry Circa
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Samuel H. Stedham.	Samuel B. Green Earles	Jo. L. Wilson	**
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Mat Amick . Coal Run	Wm. T. Underwood	II. J. Mawk	**
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J. Frisby. John Haney Lykins Dudley to Eli Lykins Isaac W. Lyk	I. Goble	Ben Hale	
T. I. Reynolds	John S. Keller	Hiram Johnson	15
D. C. Steele	H. J. Ouxier. "	B. B. Porter	**
W. K. Steele	Jas, Wells	Bryson Shepherd	
M. D. Stone	C. C. Fyffe, Elk Fork	Jake Shepherd	
Tobas Wagner	Wright Bailey Evarts	Allen Stone	**
Jacob Weddington.	John Ball jr	Morgan Stone	Canacar Creat
B. P. Ambrose, Conkling H. Combs H. Cruck	Wm. Dixon	James Cecil	Glassy Chek
H. Combs . "	John G. Farley	Hiram Greer	**
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Lewis Fairshille Coopersyille	Woodward King jr.	Frank Payton	**
G. W. Miller	Camp Madden	R. C. Lewis & Bro	. Grayson
Geo. C. Steele Corbin	J. H. Middleton	Little Sandy Coal & Sar	jd
C. J. Lewis	Calvan Pace.	Henry Moberly	. Green Mount
H. C. Lewis	James Short	Bradley Bros	Greenville
J. E. Lewis	Hiram Turner.	John T. Reynolds .	16
J. J. Lewis "	James Turner " John N. Turner "	Thos, Devey	Gregory
Orvel Anderson Crockettsville	J. W. Baker Eversole	S. C. Allen	Gyjsy
Leander Bowling " Flisha Clay "	Min. Deaton. Gross & Co. Gross & Co. Gross & Co. B. Johnston. Saml, Johnson. Levi Methtosh. Jestis Riley. Granville Spieer. William Strong. Barey Truer. J. Clark. J. Granville Spieer. William Strong. J. J. Sublett. J. B. Cruse. J. Clark. J. Graville J. J. Graville J.	Simon Allen Wm Allen	
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Thos, Deaton . "	LarKin Gibson "	frwm Carpenter	

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Samt. Carpenter Geo. Green	Gypsy	W. V. Dixon.	. Indian Bottom	James H. Powell	Laynesville
Geo. Howard	**	W. V. Dixon. Moses fron J. M. Whittaker. Castle Bros Jackson Copley		James H. Powell R. P. Robinson jr R. P. Robinson sr J. J. Stratton Washington Stratton	**
John E. Howard		Castle Bros	Inez	J. J. Stratton	
James Owens	**	Lewis Demosey	:	E. C. Blair	Leonard
Logan Salyer	**	Jackson Copley . Lewis Dempsey J. M. Ward S. R. Searey John Bremer Thos, H. Kidd Dani, McCallum Win, Morris, Riley Shepherd E. V. Taylor R. M. Karmes, Anderson Famini Collard Fraley, Jacs, Galsson Jack Galsson		Francis Clark	
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Morgan Wiseman	**	Riley Shepherd		John P. Kelley	
Wiley Wiseman .	11-1-1-	E. V. Taylor	1 1 1 1 1 1 1 1 1 1	James McKnight	**
A. J. Parton	Hager	Anderson Fannin	Island Station Isonville	Henry Schoors	**
J. P. Simer	Halesburg	Collard Fraley.	Isonville	Chas. Short	**
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G. W. Woodruff		Harry Lester	**	J. L. Greathouse	**
Jefferson Ashby	. Hanson	James Peters	. "	J. C. Pell.	
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E. Elis	. Harlan	Fanny Back	or remain	B. E. Hitcheraft	. Lexington
Kelley Harris	"	James Back.	44	Little Fork Coal & La	nd
Green Jones,	11	H.ram Blair	**	J. D. Bars	Liehburg
J. D. Pennington	Hartford	David Candill	. **	A. P. Cooper	
Thos, Davidson.	Hawesville	Hy, M. Candill. John Candill	**	II. George W. P. Howard	**
Dungan Lawson & Co.		Polley Candill	**	Jas May	
Stephen Lanhan John Reynolds	. Haynesville	Ben D. Dack.	**	Archibald Risner.	1 Ober Obe
Joseph H. Anyx	Hazel Green	J. M. Scott	Joe	W. & R. Cooper	Line Creck
John Brewer	**	Allen Hensly	Jonesburg	John P. Dyer	**
L. C. Caskey,		Jim Metealfe	**	B. C. Whitaker	Livermore
W. T. Caskey.		John E. Smith	17 Second Chemistry	Win, Jones	Livia
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Geo. Negley		John Stusher	10	H. C. Tye	
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R. J. Lewis Timothy Pennington	**	Charley Baldridge.	Lackey	E. S. Frasure 1	**
Burdine Saylor	**	Isaac Collins.	4.6	O. Hall	
Calvin Saylor, Jonathan Saylor	4.5	Nathamel Estep		Wm. Hall .	
James Shisher	+ 4	Rold, Hays		Lackey Salisbury	
Alexander Theiton,		A. Martin		John P. Sizemore	
Robert Thelton		Joe Martin		Wm. E. Shunbo	
John Hampton John Hampton J. Miles Lattle John Meyolinn Amns Niekell J. H. Phillips, David B. Rose, John Roses John Rose J. Hamber J. Hamber J. Her Janker J. Her Janker J. L. G. Caldwell R. J. Lewis Flundby Feminington Flundby Feminington Flundby Feminington J. L. G. Caldwell R. J. Lewis John W. Law John W. Hark John W. Bark J. M. Bailey W. W. Balker Ellim Blaur S. Boggs Rachel Calloun	Henderson	Collard Fraiey, Jan. Golson Jan. Jan. Jan. Jan. Jan. Jan. Jan. Jan.		Little For Coal & La  J. D. Jags A. P. Cooper H. George W. R. Howard Jas May Archibald Risner. S. W. Thomisson W. K. Cooper. J. Thomisson W. K. Cooper. J. Thomisson W. K. Cooper. J. Whitaker B. C. Whitaker B. C. Whitaker W. D. John Blanton Heirs of W. M. F. Wis F. M. Low John Blanton Heirs of W. M. F. Wis F. M. Low Heaville John Chestnut Luchdia Chestnut Luchdi	
John W. Back.		John Turner		Brown & Brown.	McGlone
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Wm. Reed	High Knob	J. S. Gatlin	Laso	J. P. Whitt & Son.	
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G. P. Combs. P. M. Duke		Joseph P. Moore	+4	Cornelius Roberts.	**
Joseph Everage		Link Morgan .	Lavnesville	Lewis Sundhe	M. Yarv
Wm, Gaylieart.	14	H. W. Cecil		John W. Black	McWhorter
Liene Eisener		J. G. Creil James t Jack		Geo. W. Brown.	**
Andrew Singleton.	**	James Clark Morgan Clark Robert Clark A. L. Davidson S. P. Davidson Upr. S. M. Ferguson W. E. Greer Sammel Hill J. C. Homell Broadns Layne Cres Layne Cres Layne		S. W. Carrier	
P. H. Timeer		Robert Clark A. I. Davidson	**	John F. Young St	**
John A. Arnold	Horse Branch	S. P. Davidson		Madisonville Coal to	. Madisonville
Saml, Miller	Hutl Byden	Dr. S. M. Ferguson W. F. Groop		S. Offer	Magaza
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Josh, Maggard		J. C. Homell,		James Medcalf .	**
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Jas. S. Back Lewis Back	Indian Bottom	John L. Layne .		Hy Day	Maggard
Win, Back		Tandy M. Layne		D. M. Maggard	
G. F. Combs. P. M. Duke  Joseph Everage  Wm, Gayhearf.  Hiram Miller  Logue Rischer  Andrew Singleton  John Stacey,  John Arnold  Sand, Miller  Hy, Lewis  John P, Lewis  John P, Lewis  John Maggard  Judge Mandy  Felbs for Miller  Lewis Back  Wm, Back  H, B, Franson  A, J. Crase	**	Broadns Layne Cres Layne John L. Layne A. N. Layne Tandy M. Layne W. H. Layne S. G. Loar		Madisonville Coal to 8, Offer Geo, W. Clements, Morris K. McCarrty, James Medealf John P. Midk fl C. M. Raiph Hy Day Wison Lewis D. M. Maggard J. F. Maggard J. E. Maggard	**
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434		MG DIMECT		Charles Simpson. M. H. Ward T. M. Breeding John Hate M. H. Ward T. M. Breeding John Hate M. H. Fergisson Richard Ferguson Richard Ferguson B. S. Hamilton D. H. Hamilton D. H. Hamilton Eliott Hill Bootor Ison Hudson Keaton F. Pelphney G. W. Price David Sinth Hotor Ison Hudson Keaton F. Pelphney J. C. Tould Same John Biddle Marson John Kadson John Kadson John Katson John Warson John Holman Gran Hunt D. Greathouse Kinamonth Bros Thos. Miller Wash, Hamdin M. W. Perkins J. R. Rollins Perry Sharp Jesse Bowens John Bowens Kandolph Collins Ferry Sharp Jesse Bowens John Bowens K. J. Pennington W. S. Alen John W. Back Louis Back Wallace Bayly G. W. Cemens Moses on Craft H. Alardin H. Mequinn G. W. Miller John Neston Reibert Lonely B. H. Mequin G. W. Miller John Neston Reibert Rolentrison John W. Back John Fincher John John J. D. Woodruff R. H. Brayhears H. G. Prätt D. M. Akeson Ben Candill John R. Gardne H. H. Brayhears H. G. Prätt D. M. Akeson Ben Candill John R. Gardne H. H. Brayhears H. G. Prätt D. M. Akeson Ben Candill John R. Gardne H. H. Brayhears H. G. Prätt D. M. Akeson Ben Candill John R. Gardne H. H. Brayhears H. G. Prätt D. M. Akeson Ben Candill John S. Redey James Stacey Jeremian Smid Mantford Von Derry Brayn J. A. Jones E. Smith Jones Stacey Jeremian Smid H. A. Jones E. Smith Jones Stacey Jeremian Smid H. A. Jones E. Smith Jones Stacey Jeremian Smid H. S. Bechyw J. J. B. Rowelly J. J. J. Jones J. J. J. Jon	
~			POSTOFFICE	NAME	POSTOFFICE
NAME	POSTOFFICE	NAME D. I. Davis	Paintsville	Charles Simpson.	Ready
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D. Chadwell	"	Green Meek		d. M. Ferguson	**
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Granville Philpot	**	Thos. J. Preston	111 A	D. H. Hamilton	
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J. Ward, M. D		1. W. Zmith		A. Ison.	"
A. P. Wilson	Marity	Vm. H. Smith	*** ** ** ** *** ******	Wm. F. Mason	46
W. S. Davis		Washington Traxel.	Parmleysvine Parmdge	Meredith Skaggs	
W R. Fisher	**	Elisha Beggs		John Warson	Rochester
G. M. Fuller		J. M. Brown	e - :	John Holman	- "
J. F. Baugh	Mershon's Roads	M. D. Collier		Gran Hunt	***************************************
A. Baker	Middle Pork	J. E. Day	**	Kinamonth Bros	· ·
Wm. Carpenter.	16	James Lytle	**	Wash, Hamblin	Rockhold
Tom Turner	**	Hy. Maggard	Patterson Creek	W. A. King	******
Brysin Mountain	Coal	Wiles E. Standfill	**	J. R. Rollins	
Mingo Mt. Coal &	'oke	L. B. Woods	Pigeon Roost	Perry Sharp	Rock House
Čo		Luther Louis		John Bowens	
Reliance Coal &		C. T. Rowlands	***************************************	Randolph Collins.	Rosedale
John Brewer	M1ZP	O. C. Bowles	Pikevine	S. Haeberlin	
E. Debusk	1	John M. Ferguson.		W. S. Allen	Roussean
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Wm. Lair		Thomas Thompso	n Pine Hill	John Newton	44
J. R. Baldwin	Moore's Creek	Daniel Howard	Pineville	James Robertson	1
S. B. Davidson		Alien Blackburne	1 leasant	John Tincher	
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Floyd Williamson	Mullis	John Hibbard	1 (11)	D. M. Atkeson.	
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M. Hill		J. J. Norton	o o Pauli	Hy. May	
Hiram Johnson		Charley Blair	. Poor ronk	Jen Prater	sandy Hook
Wm. Siler	**	Jas. H. Coldiron	h i	W. H. Bowling	
James Smith .	Nebo	John C. Dixon.	444 Aug 144	L. C. Prichard.	
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Stull & Childress	Oil Springs	Jim McKnight	**	Thos, Kelley	*** ** *** ***
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Jesse Gilliam		George Hatcher	r	Mantford Your	saxton
Jasper Wright		Win, Hubbard.	**	Perry Bryant	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E. Abney	· · · · · · · · · · · · · · · · · · ·	T. J. Leslie	4.	J. A. Jones	*****
B. Mullins		1. D. Mayo		Joe Siler	44
A. Proctor Harrison Ream	s : "	Samuel May		John W. Hunt	er Sebree
Fred Bobbs		T. R. May	Prosperity	Alex Phipps	Sellers Shoal
R. C. Fuqua		James Evans		W. E. Bowling	
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Milton Heusley.  J. Benge S. B. Gandill.  Jo Chadwell.  John Herd.  John Wright  John Law What  John Wight  John Law What  John John Law What  John John John Law What  John John Law What  John John Law What  John John John John  John Law What  John John John John  John John John John  John John John John  John John John John  James Ohalt  Moses Helm  George Thomas  J. B. Wallens  J. B. Whilan  John John John  James Shall  J. B. Wallens  J. J. Wall  Jasper Wright  Janes Shall  Janes	iels Paintsville	R. L. Davis, B. L. Davis, B. T. Dixon L. Dixon James Elliott Green Meek. Paintsvide Mining Co G. B. Preston. Samuel Preston. Samuel Preston. W. Rule Elli Stapleton. James Elliott W. Rule Elli Stapleton. James Stambaugh Madison J. Subjett. Andrewetter L. T. James James Casebier H. Cundliff. Green River Coal N. J. Barres Casebier H. Cundliff. Green River Coal N. J. Barres H. Cundliff. Washington Travel. Elsha Bergs. F. M. Brown. J. H. P. Day James Lytte H. M. Mocard W. M. Beatty Luther Louis W. M. Brerell. John M. Ferguson. John M. Ferguson. John M. Ferguson. R. M. Ferrell. John M. Fidler A. J. Hatcher P. A. Klime. H. H. Brown. H. C. Sowards T. J. Sowards T. J. Sowards T. J. Sowards Thomas Brown. J. L. P. Down. J. J. J. Nowards T. J. Sowards T. J. Sowards T. J. Sowards Thomas Brown. J. L. P. Devens John J. M. Foller J. J. M. Goble J. J. J. Nowards J. J. J. Sowards Thomas Bennett Polley Pleasant J. L. Powers John Janethuran J. L. Powers John J. J. L. P. Way J. J. J. Norton Charley Blait. John McKiller J. J. Hatcher J. J	mery.	T. Brown	Skilesville
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	T. J. Davis	South	S. W. Ward.		Blatz & Krebs
Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Dock Mosser	o meta Doork	J. G. Wells		Dark Hollow Quarry Co
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Frank Baxley	Spring Grove	1. Brewer.	**	Stony Fork Quarry Co
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Laura Tackett		James Dobson	II I'st	
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Morgan Allen .	Swampron	J. W. Caskey.	110-11 1211-1-12	
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Geo, Carpenter. Dial Cole	**	H. G. Spradlin		Long Island Coal Sup- Portland
Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Hendley Fletcher		J. W. Steele		Portland & Kennebee
Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Frank Gardner		E. B. Wells	' was t Louisville	Coal Mining Co Saco
Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	B. F. Callett		J. L. Begyer	Host Poursons	Seal thay to have a conserve
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Charles Lovely		M.A. Brown	***	Copper King Mining Chibanses
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Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	Fujah Patrick		Peter N. Alley		Addie May Mining Co. Portland
Caleb begann John S. Hatton Vin. A. Harriss A. E. Hattheld A. E. Hattheld James Banks James Banks James S. Cope A. C. Copp. Elipid Spener Thomas Strong A. B. Hattheld Joseph H. Mason. C. S. Moskey John S. Tradlec A. C. Topp. Thomas Strong A. Topp. Thomas Strong A. Topp. Thomas Strong A. C. Topp. Thomas Strong A. Topp. Thomas Stro	F. M. Patrick		Thos. Alley		Bullion King Mining Co ord Provincial Gold Min-
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	B. T. Allen	Tanksley	John B. Goff	**	Alba Mining Co Saltivan Sullivan
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	John Hownshen James Banks	Tauther	J. McCoy Wayne Scott	**	Sandy Taylor
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	S. S. Taulber		J. A. Bartiett		Warren Zine Co Saco
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	Leyl Allen	Treadway	Wiley Gulett	**	
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	John M. Treadway		G. V. Travis	n. Williamsburg	H. A. Merrill
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	S. W. Cardon R. E. Eskridge		R. A. Steel	Woodbine	Theodore Bennett Altred
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	C. S. Moxley.	**	H. L. Taylor		H. S. Robie Augusta
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James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	Thomas Spears.		J. Hughes	Wright	Jewell Granite Co Bangor
James St. John James Dobson. Vest J. W. Wight. Warriek Wookey Campbell Viper J. W. Wright. Velyongton (C. J. Hall Work Landill. Green Creason Robert Alsap Vonngs Creek Robert Robert Robert Alsap Vonngs Creek Robert	R. G. Whittinghill	Tyner	A. Potter W. M. Potter		Rodick Bros Bar Harbor
Wooley Cambled View Montaville Brown Vermas C.J. Hall W.O. Sargent E. (C.H. Andrews C.H. Berweck E. (H. Bragdon & Volume Creek E. (H. Bragdon & Volume C.H. Br	James St. John	" Vest	Wm. Warrick		Adams Oak Hill Granite Belf, st
P. W. Hall. Joseph Satton Zebulon Zebulon H. Andrews Radicioral Lolin M. Pratt Joseph Satton Joseph Satton Zebulon H. Braggion & Sons H. Braggion & Sons H. Braggion & Sons Joseph Banton Joseph Blanton G. Charles G. Charles G. Charles G. Charles H. G. Cha	Wooley Campbell	Viper	Montaville Brown	Velyington	C.J. Hall
P. W. Hall. Joseph Satton Zebulon Zebulon H. Andrews Radicioral Lolin M. Pratt Joseph Satton Joseph Satton Zebulon H. Braggion & Sons H. Braggion & Sons H. Braggion & Sons Joseph Banton Joseph Blanton G. Charles G. Charles G. Charles G. Charles H. G. Cha	Wm. Candill		Green Creason	Vonngs Creel	W. O. Sargent Pathway Granite Co. Berwick
Poley Howard & Green Brunswick By Workshile Brunswick	P. W. Hall		Joseph Sutton	Zebulon	C. H. Andrews Baddetord
Poley Howard & Green Brunswick By Workshile Brunswick	John M. Pratt Jackson Blanton	Wallins Creek	L. G. Bunyon -		Day Bros
Poley Howard & Green Brunswick By Workshile Brunswick	Jas. Blanton.		G. Charles		C. H. & A. A. Goodwin .
Poley Howard & Green Brunswick By Workshile Brunswick	Joseph Blanton James Helton	: ::	J. A. Maynard jr		J. B. Paimer
Poley Howard & Green Brunswick By Workshile Brunswick	Barry Howard		Wm. Thompson		G. W. Roso
Wilson Lewis	Poley Howard				Howard & Green Blue Hill Brunswick
John A Saylor . LEAD AND ZINC Johnson & Long	Wilson Lewis				A. P. Woodside Atherton & Sperry East Blue II II
Mark Saylor	John A Saylor.	11			Johnson & Long
Geo. Arrowwood . Ward City	Mack Saylor S. W. Saylor		White Pine Zine	Co Lonisville	John Love
	Geo. Arrowwood	. Warn chy			

NAME	POSTOFFICE
Campbell & Macomber H. Puerce Mt. Waldo Granite Wk Calvin Ames Jos. Dufore & Co. Herman Eaton.	Ellsworth
II. Pierce	Frankfort
Calvin Amor	S. Channel Land House
Jos. Dufore & Co	Acreen's Landing
Herman Eaton	**
Herman Eaton. J. Goss jr. S. A. McDonald & Co. Xelson & Shields J. H. Robbins. T. Snow & Co. T. Snow & Co. E. S. Thurlow & Co. Alonzo Abbott Marston & Gilman Lewiston Monumentai Works D. Low jr. R. R. Babbridge Blaisdell & Joy	34
S. A. McDonald & Co.	
Nelson & Shields	
T Snow & Co.	
H. M. Thaver	11
E. S. Thurlow & Co	
Alonzo Abbott	Hancock
Marston & Gilman	Jonesboro
Lewiston Monumental	
It low is	Lewiston
R. R. Bubbridge	Mount bosout
Blaisdell & Joy	
W. J. Richardson.	
B. A. Parker	North Berwick
Bryant Bros	North Jay
M. M. O Connor	Norway
Maine Cont. R. P. Co.	Pornand
R. R. Båbbridge Blaisdell & Joy W. J. Richardson B. A. Parker Bryant Bros M. M. Cromnor Maine A. L. M. & S. Co Maine A. L. M. & S. Co F. P. Freeman A. L. Heagan Thos, M. Eaton Eaton, Grant & Mortin Bodwell Granite Co S. Almond	
F. P. Freeman	Pretty Warsh
A. L. Heagan	
Thos. M. Eaton	.Queens Landing
Badwell Crant & Mortin	11. 11.
S Almond	Rockland
J. W. Grindell	Sargentville
A. L. Brown	Sound
A. A. Murphy	
Cameron Silicia Co	So, Beddington
E. P. Gamage	So. Bristol
J. Taylor	So, Norridgewock
Bodwell Granite Co S. Almond. J. W. Grindell. A. L. Brown A. A. Murphy. Cameron Silicia Co. E. P. Gamage. E. P. Gamage. Elmnons Lawton & Co. J. Taylor. Anderson & Conant Brown & Wade. P. R. Drew & Sons.	So Thomaston
Brown & Wade	Thomaston
F. R. Drew & Sons	
Geo. Green & Co	6.6
T. Maloney & Co	. **
A J. Barton	Minut 18
Black & Monroe	/ mar 11976.01
F. Brown	
R. H. Williams	West Franklin
Crabtree & Havey.	West Sullivan
Brown & Wade F. R. Drew & Sons Geo. Green & Co. P. Maloney & Co Merrick Sawyer A. J. Barton. Black & Monroe F. Brown R. H. Williams. Crabtree & Havey, C. H. Hodsdon & Son	Varmouthville

## MARYLAND

COAL BITU	MINOUS
Jacob Feik	. Aecident
John Feik Evans Mining, Milling	
Evans Mining, Milling	&
Smelting Co 2003 E. Lexington st.	Baltimore
Palatine Coal Co	**
S S Lee & Son	Barton
Potomac Coal Co	
JOHN SHAW	**
James Smiley J. Bittinger	Bittinger
S. J. Brenaman	DRUIIger
T. R. Hamilton P. P. Lohr	
P. P. Lohr	**
Cr. E. PHUISON	Bloomington
Rawlings & Pattison Consolidation Coal Co.	Bloomington
Maryland Union Coal Co	Cumberland
Andrew Friend	Friendsville
Capt. E. M. Friend	**
Capt. E. M. Friend A. J. Teatze Geo. M. Hansel	
Hitchins Bros	Frostburg
Y. Kemp.	
Y. Kemp. D. J. Brenman	Grantsville
JOHAS J. FOIK	**
Moses Kemp	**
D. Kintzinger. Louis Nachman	
Chas, Warrick	
Henry Yost	**
Thos. Cappett	Hoyes Lonaconing
John Croper	Lonaconing
Thaddens Glottelty. Mrs. Mary Miller	McHenry Mineral Spring
H. Wass & Son.	or mertal reprints
Union Mining Co.	Mount Savage
Wm. Browning John Mockin .	Oakland
Oakland Coal & Coke Co	
Taylor Since.	
	Ocean

NAME	POSTOFFIC
John & James A. Ryan	Pekin
Wm. Williamson.	11
Richard De Witt	Sang Run
John Riddler	Smmyside
Piedmont Cumberland	
Coal Co	

#### COLD AND SILVER

Empress Josephine Min-ing Co. .....Baltimore, 209 St. Paul st.

#### IRON

North Star Iron Co Baltimore,
212 N. Chestnut st.
Geo. I. Donaldson Beltsville
T. Cavanaugh
F. Daigler **
Wm. Daigler
Mark Foley "
John Gordon
M. Latfey "
Michael Reynolds "
N. J. Shipley
Heury Smith
Coleman Welch
B. McKey Muirkirk
R. C. Marlin "
John Milbrook "
Maryland Steel Co Sparrows Poin

#### STONE, GRANITE. MARBLE AND ONYX Wm. Fenby Avandala

with remaining the second seco
James H. Atkinson Baltimore
14 North et
Bergman & Peddicord . "
Carribean Manganese
Carrincan Manganese
Corinth Stone & Im-
provement Co. of
West Virginia
Cor. Fayette & St. Paul
J. Curley
1007 Park av.
Guilford & Waltersville
Granite Co
tro X (the state of
1416 N. Charles st.
J. Harris "
1327 Park av.
Jones & Thorn "
D. Leonard "
329 Old Frederick road
Jessie Tyson & Sons
Woodstock Granite Co "
100 W. Pratt st.
George Quogee
Nickerson Fortilizor Co Foston

nace Nickerson Fortiliz C. F. Rappanier Oliver & Peach Samuel Woods. William H. Chew M. C. Pyle & Son William F. Miller D. Roope & Son Win, E. Cavey Easton Ellicott City Ellicott City Granite Hanoverville New Windsor Pylesville Sykesville Wakefield Woodstock

## MASSACHUSETTS COAL BITUMINOUS

White Cross Mining & Milling Co.....Boston

#### COPPER

Eastern Developing Co.Boston 95 Milk st. Saint Mary's Copper Co. " 68 Devonshire st.

#### COLD AND SILVER

Boston Gold Mining Co. Boston R. 94, 620 Atlantic av. Lake Lode Mining Co 27 Broad st. J. H. Brown Crystal Mills Mining Co. Chester

#### IRON

Edward D. Peters. Dorchester

#### LEAD AND ZINC

POSTOFFICE Boston Zine Mining Co. Boston Mason Bldg.

#### MICA

#### SALT

Nonquit Salt Works. ... S. Dartmouth SLATE

Anifiaw Slate Trust....Boston Monson Maine Slate Co. ... Monson Slate Quarries... " 113 Devonshire st.

## STONE, GRANITE, MARBLE AND ONYX

STONE, GRANITE, M	ARBLE AND ON'
Henry Churchill	Alford
Henry Churchill. J. Shaw & Son. Wm. Hogan Penquig Soap Stone Cc Cape Ann Granife Co. Asa Hood. T. Fitzgibbon D. Lennehan & Son. L. Watson. Atlanta Stone Co. Fitchburg Railroad Co. C. A. Green.	Amherst
Wm. Hogan	Ashland
Cane Ann Granite Co	Par View
Asa Hood	"Duly Liew
T. Fitzgibbon	Beverly
D. Lennehan & Son	Beverly Farm
L. Watson	
Affanta Stone Co.	Boston
C. A. Green	
C. A. Green	
Meramas Onyx & Met.	al
Co	. **
Meramee Onyx & Met	al
Wm Sherman	Denoverillo
Timothy Keefe	Chester
H. M. Scott	Danvers
Richard Delaney.	. Dedham
B. H. Scars	East Dennis
John Francisco	English
Fall River Granite Co	.Fall River
J. B. Wilmot	
F. A. Hale	.Fitchburg
F A MacContin e. ()	
J. Landy & Bro	Florence
W. P. Latham	. г югецее
Smith & Daniels.	Foxboro
J. C. Cloyes	Framingham
D. Rusk & Co	. Gloneester
E W Willout	Gostien
C. M. Cummings	. Graniteville
M. P. Downs	
Sami, Fletcher	. "
Wm Road	
H. D. Wright	
Thos, Lahey	Haverhill
E. J. Prescott	Hudson
Daniel Cahill	. Lanesville
J. D. Courgov	
H. Moorings	**
E. Sherburner	+4
J. J. Vernon	
C.A. Green. 178 Tremont st. Meramas Unyx & Met. Co. Morames Onyx & Met. Co. Morames Onyx & Met. Morames Onyx & Met. Morames Onyx & Met. Mr. Sherman. Timothy Keefe H. M. Scott Richard Delaney H. H. Scars John Frawley Fall River Grante Co J. Landy & Bro W. P. Latham Smith & Damiels J. C. Cloyes D. Rusk & Co. J. Landy & Bro W. P. Latham Smith & Damiels J. C. Cloyes D. Rusk & Co. R. L. Downs Saml, Flotteher L. P. Palmer Wm. Reed H. D. Wright Thos. Lathey W. R. Cheves J. J. Presott W. R. Cheves J. J. D. Comreey H. Moorings E. Sherburner J. J. Vernon Grisss Bros W. D. Blanchard & Co. Kithredge & Leavitt Swa & Brain	. Lee
Kiffredge & Leavitt	reominister.
Sweat & Davis	Lowell
A. R. Bletham & Co	Lynn
J. Heath	1
X. White	Modford
W. D. Bianchard & Co. Kittredge & Leavitt Sweat & Davis. J. A. R. Bletham & Co. J. Heath. J. A. Raunsdell. N. White G. Crofton. John Cuddahy. H. J. Rice.	Milford
John Cuddahy	**
W. N. Blint County	Milton
A MeDouald & Son	Monson Monson
J. Bertram	Mount Auburn New Bedford
John Cuddany. H. J. Rice W. N. Flint Grainte Co A. McDonald & Son J. Bertram J. McCarty North Action Granite Co Saml, Fowler Brown Fres	North Acton
North Acton Granite Co.	
Saml, Fowler Brown Brow	Northbridge

Sand, Fowler
Lower Company
Low

Peabody

Pigeon Cove

NAME	POSTOFFICE
S. N. Waite & Son	Piggon Core
Churchhill & Hitchcock	
Frederick & Field	41
Gleneoe Granite Co	
C. Johnson & Bro	
McKensie & Patterson	**
Swithin Bros.	
Lanesville Granite Co.	Paultweet
J. H. Merrill & Son	
J. Welch	, saucin
	ethornor.
	Sharon
Ambrose Gilman	Shelburne Falls
A. Sherman	S. Dartmouth
Lewis Brown.	S. Peabody
C. W. & G. W. Davis	
Wright, Lyons & Co	Springfield
Middlesex Marble Co	
	Webster
Chrystall Bros	West Quiney
Miller & Luce	**
J. B. Reinhalter	**
78 Copeland st.	
Rouleau Bros	**
M. Freedley	West Stockbridge West Varmouth
Capt. A. Crowell	West Varmouth
J. S. Ballard.	Worcester
Evans & Co	
Fenice Chemical & Colo	r
Co	**
Noreross Bros.	**
Rutland Co, Marble Co	5.7
Troy Granite Co.	4.

## MICHIGAN

#### COAL BITUMINOUS

COFIDING COME CO	(4),111111111
Hon, W. C. Mayburg	Detroit
74 Griswold st.	
Grand Ledge Coal Co.	Grand Ledge
Star Coal & Fire Clay C	0, "
New Coal Mining Co	Jackson
Geo. Myers	Lacona
Black Diamond Co	at
Mines	Sandstone
Capt. Wm. W. Spauldir	ig Sault Ste, Marie

#### COPPER

AHOHCZ
Detroit
5.5
Eagle River
**
Houghton
1.0
**
Lake Linden
Lake Superior
Ontonagon
11

#### GOLD AND SILVER

Brush Heap Mining Co	Detro
David R. Pierce	
200 Larned W.	
Shipman Gold Mining &	
Manufacturing Co.	
E. B. Wendell	

## GRAPHITE

Detroit Graphite Manufacturing Co.... Detroit 542 River st.

#### GYPSUM

#### IRON

Gibson & Mitchell Chan	HDIOH
Detroit Mining Co Detro	oit
to Witherell st.	
Wm. J. Gray	
89 Moffatt Bldg.	
A. T. Bliss E. Sa	ginaw
Nells & Stone	
The Sheridan Mining Co. Esca:	naba
N. Slaght Gree	nville
Northern Land & Mining	
Co . Hanc	roek
	Mounta

NAME	POSTOFFICE
E. Douglas Iron Mining	
Co	ronwood
Barnum Iron Mining Co.1	shpening
ClevelandfronMiningCo.	**
New York Iron Mining Co.	**
Saginaw Iron & Mining	44
SalisburylronMiningCo.	14
J. Pater.	Invietor
J. Peters	Jaronatta
Davis Mining Co.	ani quette
Dexter from Mining Co.	11
Pitts, & L. A. Iron Min-	
ing Co	+1
Sampson Iron Co	10
Waverly Mining Co 3	denominee
Foster From Exploring Co.?	Metropolitan
Groveland Iron Mining	
Co	**
Metropolitan Mining Co.	
Sturgeon River IronMin-	
ing Co.,	
The Platt Mining & Mig.	National Mine
The Flatt Mining & Mig.	
Cuff Iron Mining Co	yegannee
Curry Iron Mining Co.	vorway.
S. T. High	10
F. A. Johnson	11
Penn Iron Mining Co	4.4
J. Perkins & Sons	**
John Sewell	**
Tamarack Mining Co( Ruth & Rachel 4 Riversale fron Co 4	mechee
Ruth & Rachel	Juinnesee
Riverside Iron Co 1	tepublic
Sagmaw Fronk Mining Cos	Mannakw
William Wills	Stoneville
Crown Point Mining Co. Pipe Option Mining Co.	Wakelield
Pipe Option Mining Co.	**

#### LEAD AND ZINC

Osceola Cons. Mining Co.Opechee

#### SALT

SAFI
J. E. Potts Salt & Lum-
ber CoAu Sable
Butman & Rust Bay City E. S. Fitch
Folsom & Arnold
E. Hall
C. E. Lewis
McEwar Bros. & Co. "
Willer & Lewis " Win, Peter "
Robinson Salt & Lum-
ber Co.
E. Y. Williams & Co. 1, 120
Brown & Ryan East Sagina
E. O. & S. L. Eastman &
Eaton, Potter & Co. "
Gebhardt & Easterbrook
W. A. O'Donnell "
Whitney & Batchelor
Whittler Electrical Co
losco Brine Supply Co., Ltd East Tawas
Reffz Salf & Lumber Co Manistee
State Lumber Co
J. O. Worsey Marine City
Co. Midland II. M. Loud & Sons Min-
ing Co Oscoda
Oscoda Salt & Lumber
( 0,
R. C. Ogilyje Port Hope
E. F. Gould Saginaw Mitchell & McClure Saginaw
Saginaw Lumber & Salt
Co
W. F. Stevens
Stevens & La Due
Warner & Eastman . " Wells Stone Co
West Side Lumber Co "
West Side Lumber Co A. W. Wright Lumber
(°1),
Wylle Bros Hine & Laderach West Bay C
Hine & Laderach . West Bay C
STONE, GRANITE, MARRIE AND O

## STONE, GRANITE, MARBLE AND ONYX

Alabaster Plaster Co., Alabast	01
Babbett Stone Quarry	
Stone Co Caseville	e.
Detroit & Marquette	
Brownstone Co Detroit	
A. A. Parker	
32 Champlain st,	
R. J. Sinclair	
55 Champlain st.	

NAME	POSTOFFIC
H. B. Nease & Son	East Saginay
Alabastine Co.	Grand Rapid
Grand River Quarries	10
F. Godfrey & Co	
Joseph Croze	Houghton
Bennett Sewer Pipe Co	. Jackson
Jackson Stone Co	
Excelsior Red Stone Co	Lansing
Lake Superior Red Stor	16
Co	Marquette
Newport & Lake Supe	(ta
rior Brownstone Co	), "
Wm. Patrick	Midland
Goodall Bros. Stone Co	Muskegon
Keweenaw Red StoneCo	o. Newtonville
S. B. Bond,	. Stony Point
P. Groose,	. Wells
	Williamston

## MINNESOTA

## COAL BITUMINOUS

Freeborn Consolidated Coal Mining Co... Alden Gray Jacket Mining Co. Minneapolis Lehigh Coal & Iron Co.. St. Paul

Montana Precipitation

#### GOLD AND SILVER

Montana Precipitation
Minnesota Lake Mount-
Minnesota Lake Mount-
ain G. & S. M. Co. Benson Duluth & Nova Scotia Mining Co Duluth
Imbith & Nova Scotia
Mining Co Dujuth
Higgins Wildcat Co
Macomber Mining Co
Minnesota Mining Co
Rainy Lake Mining &
Improvement Co "
Silver City Mining Co
Black Hawk Land & Min-
ing Co Glencoe
Ben Harrison Gold &
Salver Mining Co - Granite Fa
Minnesota Valley Gold
& Silver Mining Co. "
Jordan Mining Co Jordan
Stillwater Mining Co Minneapol
United States Mining &
Milling Co
Vermillion Range Min-
ing Syndicate
Washburn Mining &
Milling Co
Minnesota Mining Co., Monticello
Sauk River Mining Co. Richmond.
Claney Creek Mining Co. St. Paul
The Vellowstone Placer
Ch. "
Lumberman's Mining Co. Stillwater
Mineral Point Mining &
Avalanche Mining Co. Verndale
Avaianene Arming Co. Aeriidale
Home Gold & Silver Min-
ing Co Wabasha Wabasha Black Hoof
Mining Co "
Vienna Consolidated
Minting Co Winona

## IRON

Hamilton Ore Co	I	tiv	vai	hi
Athens Iron Co	1	hi	111	h
Atihakon Iron Co.			5.5	
Boston Iron .Co			* *	
Bradley Iron Co			0.5	
Camden Iron Co			* >	
Carnegie Mining Co.			* *	
Cleveland Fron Co			+ 6	
Clyde Mining Co			* 1	
Columbia Iron Co.,			* *	
Comstock I. Mining Co			* *	
Consolidated Vermillion				
Iron & Land Co .			9.9	
Cosmopolitan Iron Co.				
Durton Iron Minime Co.				

Cosmopolitan Iron Co.
Dayton Iron Mining Co.
Dayton Iron Mining Co.
Detroit Iron Co.
Donald Grant Mining Co.
Dulith Iron Mining Co.
Dulith Iron Mining Co.
Dulith Iron Mining Ko.
Developing Co.
Dulith Mining Iros.
The Hard Co.
The Hard Mining Co.
Gernania Mining Co.

NAME POSTOFFICE	NAME POSTOFFICE  Dakota & Minnesota Stone Co. Jasper Liverne Granite Co. Laverne F. Meyerding. Morgan Carlston Bros & Co. St Cloud	NAME POSTOFFICE
Horton Mining Co Duluth The International De-	Stone Co	Geo, W. Day Laddonia James D. Montague
velopment Co "	Luverne Granite CoLuverne	M. Cole Lamar
Fron King Mining Co	Carlston Bros. & Co St. Cloud Northern Granite Co	Thos. Gregory & Sons. "Lafayette Coal Co. Levington
velopment Co	Northern Granite Co "	Andrew O'Malley "
Lucalu Iron Co "	Portland Stone CoSt. Paul	P. G. Boulware & Co Liberal
Lincoln Iron Co	Liverne Grainfe Co. Laverne F. Meyer-ling. Morgan Garlston Bros. & Co. St. Cloud Northern Grainfe Co J. B. Roblinson Fortland Stone Co St. Paul St. Paul Grainfe Co T. P. Wilson	C. J. Cameron
Merritt Nickel Mining Co. "	Cameron & Co Sauk Rapids	Philip Foulk "
Mesaba Central Land &	, , , , , , , , , , , , , , , , , , , ,	H. C. Hatheld "
Exp. Co " Mountain Iron Co "		John Perkins
Exp. Co		John G. Wilson
New England Iron Co New York Iron Co	MISSOURI	Iowa & Missouri Coal &
Northern Light Iron Co. "	ASPHALTUM	Mining Co Livingstone
Yorth Smerior Iron Min-		Geo. Bacheldor Macon
ing Co	Gibson Asphaltum Co., St. Louis North American Asphal-	Macon Coal Co "
Poca Iron Co	U.S. Asphaltum & De-	M. Clark Marceline
Rouchleau Iron Co	U. S. Asphaltum & Development Co	Wilburn Coal Co. Marshall C. H. Morgan Minden Mines S. F. Pike. "
Roucineau tron Co	Oriel Bldg.	M. Cole. Lamar Thos. Gregory & Sons. Lafayette Coal Co. Lexington Andrew Oi Malley W. D. Ramkin & Co. W. D. Ramkin & Co. Liberal C. J. Cameron & Co. Liberal Davery Bros. Philip Foulk H. C. Hathield Lavery Bros. John Perkins. John Perkins. John Perkins. Lavery Bros. Libing Foulk H. C. Hathield Lavery Bros. Libing Co. L
Security Iron Co	COAL BITUMINOUS	South-Western Coal Co . "
Twin City Iron Co	Mascott Coal Mining Co.Amoret	Joseph Murley Montserrat
Union Iron Mining Co "	J. A. Vance	Murley, Fitch & Harder. "
Virginia Iron Co	Ed. Green Bellamy	J. F. Gill
Marais Iron Co "	John Laws Beloit	W. D. Robinson
	W. C. Burton Bronaugh	John McCorkendale. Norborne
Vulcan Iron Co	L. H. Saggs	Wm. Serivens
Wyoming Iron Co "	Clark Coal Co Brookfield	F. M. Bidler Osceola
Wyoning Iron Co. Yongstown Iron Co. Zenith Iron Mining Co. Pacific Mining Co. Athend Iron Co. Mesaba Canton Iron Co. Charles to Uron Co.	Mascott Coal Mining Co.Amoret J. A. Yance R. Graham Mullville Ed. Green Bellamy John Laws John Laws Honas J. Stanton Hittinger L. H. Saggs Personalith Clark Coal Co. Brookfield J. W. Morris Black Diamond Coal Co. Browlington H. H. Stephens Walter Jones Walter Jones Walter Jones Cariro Wm. O'Bryan & Co. Carbon Centre G. S. Hoss.	W. D. Robinson. Linn & Co. John McCorkendale. Norborne Wm. Seryens. H. T. Noble. North F. M. Bidler. Osecola M. H. Jacas. F. College of the College M. H. Jacas. M. J. M. Wise Coal Co. Red Hill Enterprise Coal Co. Renick Carbon Center Coal Min- ing Co. Rich Hill.
Pacific Mining CoFaribault	H. H. Stephens "	Benjamin Tarpley Quitman J. M. Wise Coal Co Red Hill
Athend Iron CoMesaba	Walter Jones Brown's Station	J. M. Wise Coal Co Red Hill Enterprise Coal Co Renick
	J. M. Cooley Cairo	Carbon Center Coal Min-
Lincoln Iron Co	Wm. O'Bryan & Co Carbon Centre	ing Co
Mesabic Mountain Iron	Redifer & Edwards	Wm, F, Hudson "
Notion Lands Dani Ga "	Will, O Bryan & Co. Carbon Centre G. S. Hoss	McComb Bros, & Co " W. K. Martin
Putnam Iron Co "	T. S. Gordon Columbia	O. Spencer
Co	l. S. Gortion Communa Geo. Lowery Robert Krampt Concordia H. B. Hobbs Deepwater Hobbs & White Kay Coal Co John Park, Dunksburg J. S. Serany	Sullivan & Cheney " . Frank Williams "
Co Minneapolis 42 Boston Block American Mining Co Anchor Iron & Smelting	H. B. Hobbs Deepwater	Woodson & Woodson
American Mining Co "	Kay Coal Co	Atoka Coal & Wining Co. St. Louis
Co "	John ParkDunksburg	Kansas & Texas Coal Co. "
Ashland from & Steel Co. " Findle from Co. "	G. W. Strickland	Osage Coal & Mining Co.
Henrietta Iron Co "	F. M. Elston & Co Elston	of Missouri
A shland Iron & Steel Co. Eagle Iron Co. Heurietta Iron Co. Kannisticue Iron Co. L. & S. Vermillion Rame	Hy, Etterman	Jas, W. Gilmore Sheldon
	Kay Coal Co John Park. Dunksburg J. S. Serany G. W. Strickland. F. M. Eiston & Co. Flow Free Free Free Free Free Free Free Fre	L. J. Rowe
Minneapolis Iron Co	S. M. Talbot	W. N. Beard
Milling Co	R. L. Bishop & Co Fulton	John W. Tennill Springfield
615GuarantyLoanBidg. Swan Lake Iron Mining	Slater & Co	J. B. NovingerStahl
	Warner Griswold Guthrie Robert Osborn Hardin	D. A. Mayer & Bros - Sturgeon Jack Piley - Sylvania
Imperial Mountain Fron Co Northfield C. Brinkerhoft St. Paul	J. B. Short Harrisburg	Eli Zook
C. Brinkerhoff St. Paul	W. A. Stidhame " Geo. Bain & Co. Higher	J. W. Johnson Taberville
Confinement St. Faur 342 Cedar St. Foley Mining Co. " Licking Mining Co." Pioneer Press Bidg	Bonanza Coal CoHiggmville	Grundy County Coal Co Trenton
Licking Mining Co " Pioneer Press Bldg	E. B. Powell "	Lane & Love Chronylle
	Rocky Branch Coal Co "	Andrain Manufacturing
Minnesota Iron Co " Nilma Iron Co "	Farrar & Armstrong Hume	Samuel F. Dutton Virginia
Nilma Iron Co Out Crop IronMiningco, 100cHoneerPressRidg, Saint Paul & Duluth Mining Co	Ben. Funk	Owen Coal Co
1006PioneerPressBldg, Saint Paul & Dubth	Eureka Coal Mining Co. Huntsville	E. S. Downing
Mining Co	Huntsville Coal & Min-	Milton Every "
Germania Life Bldg.	Geo. W. Jones.	Samuel Potter "
LEAD AND ZINC	Thos, Madden	J. D. Wright
	Mutual Coal Mining Co "	John B. Evans Warrensburg 1, J. Wells Windsor
Zumbro Lead & Mining Co Wabasha	H. L. Rutherford & Sons "	1. J. Wells Windsor Workand
	Anglo-American Cotton,	Hunt Bros
STONE. GRANITE, MARBLE AND ONYX	Mining & Coal Min- ing Co. Kansas City	J. M. Wise Coal Co. Red Hull Entreprise Coal Co. Renick Carbon Center Coal Min- ing Co. Renick Win, F. Hulson. Rich Hill. S. W. Hopkins. Rich Hill. S. W. Holson. Rich Hill. M. K. Martin. O. Spencer. Sullivan & Cheney. Frank Williams Woodson & Woodson. Joseph Flekering Coalt'o. Richmond Atoka Coal & Mining Co. St. Lonis Kansas & Texas Coal Co. Silvans. Reason Co. Silvans. Reason Co. Of Missouri. S. B. Cohen. Sediha Jas. W. Gilmore. Sheldon L. J. Rowe. Sheldon L. J. Rowe. Sheldon L. J. Rowe. Sheldon L. J. Rowe. Sheldon L. J. Wellmore. Sheldon J. W. Hoper.
Flag River Brown Stone	John W. Tate Farrar & Armstrong. Hume Ison Fauk. Enreka Coal Mining Co. Huntsville Huntsville Coal & Min- ing Co	FIRE CLAY
Co. Duluth Lake Superior Brown- Stone Co	C. H. Hartman	Ark. Coal. Fire Clay &
Stone Co "	Hartman & Gilbert "	Ark, Coal, Fire Clay & Manufacturing CoSt. Louis
	Missouri Coal and Con- struction Co	COLD AND SILVER
Putnam Iron Co . "	Rocky Branch Coal Co "	Augusta Mining Co. St. Louis
Granite Falls Stone Quarry Co Granite Falls Blue Stone Quarry Co Jasper	Sunliower Coal & Mining	Augusta Mining Co. St. Louis 304 N. Eighth st. Nogal & Bonita Mining & Milling Co " 500 Olive st
Quarry Co Granite Falls	E. W. Price	& Milling Co "
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POSTOFFICE

## LEAD AND ZINC

#### MINERAL PAINT

Saline River Paint Co St. James Muning & Kansas City Mineral Paint Co . . . St. Louis

### PHOSPHATE

Whitaker Phosphate Co. Kansas City 716 Delaware st.

#### SALT

Solomon Solar Salt Co. Kansas City 503 Delaware st.

### SLATE

T. H. White . . . . . . St. Louis 812 South Seventh St.

## STONE, GRANITE, MARBLE AND ONYX

M. L. Hubble	.Aurora
	Bourbon
B. F. Reeves	
G. L. W. Smith	11
M. O. Taylor	Cedar Grove
	Graniteville
Scheen Bros	Granitevine
Baldwin Bros	Tronton
Lones & Sons	
	e
Co	Kansas City
George Dugan	. **
La Motte Granite Co	4.4
Lyons & O'Connell.	+4
Wm. Ceurless	Liberal
Will, Collinson & Minin	
Mont. Marble & Minin	"Montgomery.Cit
Co	Mt Desert
Otter Creek Granite Co	Chairman
N. Roberts	Quitman Samte Geneviev
Egyptian Marble Co	Similar carners
1 W. Allen 7, 200	St. Louis
TIGES Broadway	
American Lithograp	111
Stone Co.	14
304 N. Eighth st.	
American Onyx Co	**
Central Stone Co .	**
Hogan & Morgan	1.0
Hogan & Morgan	
2424 Garrison av.	4+
Stifel & Ruckert	.Seneca
American Tripoli Co.	Steelville
W. H. Ferguson W. A. Metealf	Steerame
W. A. Metealf	
Milne & Gordon	Syenite
O. P. Kerr	Webb City

## MONTANA

#### COAL BITUMINOUS

Wm, Flanigaud	Cascade
Belt Creek Coal Co	Great Falls
J. A. Carrier	**
Sam Dean	.,
Gault Coal Co	
Cameron & Ripley	Linia
Jacobs & Co	**
Robinson & Truax	**
Wm. Tasker	Maiden
P. Saunders	Millegan
Willard Millegau.	13
W I Salishary	11
F. D. Taylor	New Chicago
11 M Thomas	
Bear Creek Coal Co	Red Dodge

#### COPPER

Wm, Garety & Co	Anaconda
Acquisition Mining Co.	Butte City
Anaeonda Mining Co	
Boston & Montana Min	-
ing & Smelting Co.	
Clear Grit Mining Co .	
G. W. Daugherty & Co.	.Corvallis

NAME	POSTOFF
Blue Line Mining Co	Elkhorn
Crow Chief Mining Co .	11
Crow Clifet Mining Co.	**
Geneva Mining Co	
Rising Sun Mining Co.	
Geo. B. Conway	Glendale
Heela Cons. Mining Co.	
Boston & Montana Min	
ing & Milling Co.	Great Falls
John Sherling	Heron
John Shering	Tringon
1, G. Sampson	, Pateer
L. Johnson	Sixteen
Nelson Murry	
Geo. Robertson	11
Joe Smith.	4.6
R. R. Cram	Whitehall
R. E. Cram	11 1111
J. W. Gilkey	
A. M. Hedley	
J. O. Jordan	.,
John Newman	
J. E. Parish	1.0
J. D. Pritchett	**
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Frank Shott	

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he Silver Gulch Mining	
Conserve and the conserve of th	
Co Hurray Placer Mining Bedford	
Co Mining	
Co Billings	
pavid Copperfield Gold	
& Silver Mining Co Boulder	
Montana Bay State Min-	
ing Co	
J. W. Ollinger.	
ing Co Bozeman	- 11
Theo, Schweitzer.	
durray Placer Minning Sand, Sherman Minning Co Savid Copperfield Gold & Salver Mining Co Boulder Montana Bay State Min- ing Co J. W. Offinger. Bozeman & Battle Min- ing Co Theo, Schweitzer. Eagle Mining Co Montana Hydraulic Min- ing Co	
Herentes Mining Co	
Montana Hydraulie Min-	
Hig Co	
comboriand Devel. A	
Improvement to . Castle	
Etta Mining Co	
W. H. Metcalf.	
West Comberland Co. Door Lodge	
Blackston Mining Co Deel Bank	
Montaina Hydraulic Min- ing Co Silver King Mining Co Cumberkund Devel. & Improvement Co Esta Muning Co W. H. Metgalf West Cumberkund Co Blackston Munin, Co Deer Lodge W. H. O. Flyrey Dillon Diluque Charles Bowers Gardiner	
D. Chowen Dubuque	
Charles Bowers Gardiner	
L. O. Flyrie Dulon D. Chowen Dubuque Charles Bowers Gardiner Royal Gold Mining Co Gold Creek Carbonate Chief Mining Co. Great Falls	
Carbonate Chief Mining	
Co Great Falls McKinley Mining Co	
Park Consolidated Min-	
ing Co	
Helena & Butte Co. Helena	
Hester A. Mining Co	
Olive Branen Mining Co.	
White Rabbit Gold &	
Park Consolidated Muling Co Helena K Butte Co. Helena K Butte Co. Helena K Butte Co. Office Branch Mining Co. Who Mark Millions Livingston Livingston	
GWW Hunder Enterprise Mining & Lowiston Enterprise Mining & Livingston Golden Star Mining & Milling Co Gold Quartz Milling & Milling Co Cold Quartz Milling & Milling Co P. W. McAdaw Barrett & O'Donnell Breech & Co Charles Inckson	
Enterprise Mining &	
Enterprise Mining & Smelting Co Livingston	
Golden Star Mining &	
Cold Cuartz Milling &	
Mining Co	
P. W. McAdaw Maiden	
Barrett & O'Donnell Martina	
Beech & Co	
Charles Dickson	
Kossler & Co	
Mclilligote & Co.	
Nine Mile Mining Co.	
John O'Dounell	
Voth & Co	
Charles Duckson	
St. James Consolidated	
Lost Calch Placer Min- ing Co. Missoula St. James Consolidated Mining Co. Mining Co. Neihart San Martina Mining Co. Plains Ed Migone Race Track Leon Mountain Mining Co. Superior	
San Martina Mining Co.Plains	
Ed Magone Race Frack	
Ed Magone IronMountainMuningCoSuperior West Iron Mountain Co. P. II. Jones Birch Crock Mining Co.WhiteSulph Mina Consolidated Min- ing Co Wickes	
P. H. Jones Washingto	n Bar
Riveh Creek Mining Co. WhiteSulph	urSpgs
Mina Consolidated Min-	
ing Co Wickes	

#### CYPSUM

F. C. Potting Canyon Ferry

#### IRON

John Hay & Co Anaeouda Atlantic Mining Co Clendenin
Atlantic Mining Co Clendenin
Angust Mining Co Elkhorn
F. Moilie Mining Co
Montana Central Mining
Co
Missoula Iron Works . Missoula
Magnet Mining Co New Unleago
11. Berg

### LEAD AND ZINC

George Goss.	.Augusta
L. S. Goss Plul A. Manix	an and and
Black Hawk Mining Co Dry Fork Mining Co.	
P. H. Hughes Pride of the West Man	
	Dillon
Dillon Mining Co Magnet Mining Co Polaris Mining Co	1111011
J. E. Allen H. W. Brown	Glendale
David Terry Thomas Dean	Townsend
J. P. Biley	**

#### MICA

Michener & Son Meadow Creek

#### STONE CRANITE MARBLE AND ONYX

STONE, GRANITE.	MARBLE AND UNI
Thomas Joyes	Boulder
. Barrett	Pozeman
I, D. Stemons	Butte
'ap. E. H. Trerise.	. Canyon Ferry
los. Woodward	
Carter Mining Co	Clendenin
Tarter Milling Co	**
H. C. Foster & Co	**
Gibson & Co.	**
Lilly & Black	
May & Educy Minin	3 00.
Paragon & Topland	Min-
ing Co	
Paris Gibson	Great Falls
Wm. Hostord	
Montana Granite C	o Helena
E. M. Jacobs	Limit
James Austin .	Millegui
Duncan Robertson	
T. R. Salisbury -	15
T. G. Webber	
Albert Blake	Placer
Ameri mass.	
E. P. Durnen	Townsend
H. S. Hyatt	***

## NEVADA

#### ANTIMONY

W. W. Williams. Bernice

## COPPER

Win, Randolph, Humboldt J. McConnell Mason Valley W. K. Spragg Yount Llamiton & White Manse Edward Guldan sunnyside

## COLD AND SILVER

E. T. Gresey	Aurora
John P. Noidy	**
Ed. Bews & Co	Aurum
Ed. Dews & Co	
G. Paltania	**
A. Tiffany Austin Mining Co	Austin
Austin among Co.	Belleville
J. Dancher	120 110 1100
L. Lanoix	
Frank Magnire,	
Thomas Percell	
P Bartelle.	Belmont
Cubbins & Hancock.	**
Barrison Bros	
Thursten Davis	4.9
Jas. Larty	**
Geo. Nicholl	2.3
Salvator Mining Co	
Stebbins & Darraugh	Beowawe
Radoer Mining Co .	
Benson, Engstrom & C	0.
Fowle & Jonadon .	Bernice
Chas. Kaiser	
Danl. Keeler	11
Dann. Rectes	Bullion
John Patch	11
J. P. Raine	

	DILLICION 1—SU	PPLEMENT.
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Standing Elk Co - Bullion	J. J. Caronholl POSTOFFICE	NAME C. M. Negman, White & Yound Bros. P. Allard Frank Bradley. das. Coleman E. Craipe. Bart Croee. W. Ledge & Co. W. W. Ledge & Co. W. W. Ledge & Co. W. Ledge & Co. W. Ledge & Co. W.
George Williamson	F. J. Cowles & Co	C. M. Negman. Manse
Water Works Co Candelaria	Archie Dorsey	P. Allard Midne
Fred Corkhill	Victor McKelvey	Frank Bradley
Frank Gallagher 6	1. N. Sherwood Co.	E. Craine
A. Garrard.	A. W. Wilson	Bart Croce
Julius Goldner	H. Driscoll Galena Mellander Bros	M. Lemos
General Green	Peter Anderson Gardnerville	F. McGeary
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Charles Nelson	Imperial Mining Co Gold Hill	E. Trabul.
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Oliver Roberts	Silver Hill Mining Co	J. F. Clarke
W. H. Thomas	Thomas Cornell Hamilton	J. Phillips
A. M. Ardory	J. T. Crabtree	Chas. Wright
Geo. C. Bryson ir	John Dicholder	Montgomery Mining Co Montgomery
A. Cohn	Louis Lani	Woodward Mining Co
H, Decker	C. A. Mathewson	J. T. Williams Morey
Wm. Henry Doane "	John Navea	Ferd Festamere Mountain City
F. Golden	David Ross	Columbus Harris
S. L. Lee	James Siri	John Huber
M. A. Murahy	Confidence Silver Min-	J. G. Johnson "
A. C. Pratt	Esmeraldo Minima Co. Hawthorne	John W. McDonald
Otto Shulz	Fairmount Consolidated	J. R. McGinnis
II. M. Verington	Silver Mining Co	Max Schoen
J. Frazier Cloverdale	Laponta Consolidated	J. Maney & Co Oriental
tor	Gold Mining Co	A. J. Millick. Osceola
Thomas Mitchell	Pamilieo Gold Mining Co.	Osceola Gravel Mining
Henry Peters	J. A. Waddell,	B. Bianchi Pub. 120
P. I. Harrington Columbia	Co Hucks	George Buchanan
A. P. Sinelair	John Corlles	J. Flynn "
dames DavisColumbus	A. W. Geer	J. Haddow
Mountain Oncen Mining	J. B. Gilbert	Joe Lindson
& Milling Co	David Irwin	C. H. Rand
W. W. Byrom Dayton Carson River Drodoing	John Pintocher	D. Smobersteg
Co	Lee Rontzang	J. Walker
J. E. Dignoux, " J. M. Donglass & Co. "	W. H. Sharp	Brown & Scott Palmetto
H. W. Ely	Willave & McDonald Holbrook	Hill & Vodadinich
Wm. Mathiana	O. C. West.	Claude Atchison Panaca
T. P. Mack	J. Baldiece Humboldt	Lawson Atchison
Rolf McCullough 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J. Clark	Joseph Conway
C. C. Truett	G. W. Meacham	A. C. Yoacham
Mattie Watters	C. & A. Adams Lamoitte	W. A. Liston
W. T. Cox	Wm. Cant	D. A. Reeves
Bart Croce	C. Hargrove	H. Rich
John Meyett	D. Ogibbie & Co	L. D. Watson.
John Phillips	R. E. Skaggs & Co.	Bell, Kemler & Reinhart, Paradise Valley
Welsh Bros. "	Pittsburg Cons. Gold	Eli Beker Peavine
James Hendra	Pittsburg Gold Mining	Jacob Clone
John Buser. Dver	V. B. Possoni	Pat Linard
GreatWesternMiningCo.Eagleville	Star Grove Mining Co	F. C. McNeil
Wm. Magnire "	S. B. Thorp	E. P. Beaman Pina Crave
Walker & Trimble	Jos, Cahaly Lida	Ex-Goy. H. G. Blasdel. "
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ing Co	Louis Tietjen	Wheeler Mining Co
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A. R. Watson	Ver Mining Co Lincoln Chas Bell Lavolackia	Maysville Mill & Mining
H. R. Logan Empire City	P. K. Reid	Vorning Star Mining Co
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J. P. Woodbury	J. Handcock	Mining Co
Bowman Mining Co Eureka	Kennedy & Co	W. R. Chamberlain
Jackson Mining Co.	A. Marteenis "	Jos. E. Jones "
Chas. Lane	Santa Fe Mining Co	ing Co
Prospect Mrn Miniou Co.	L. L. Rickerd McDermitt	Louis Stevenson
Richmond Co	L. C. Clark Mason Valley	Judge Wm. Webster
Richmond Cons. Min-	P. Gallagher	Jos. Branchi Reveille
Chas. Rodeen.	J. O. Harra	Gro, A. Bouelli Biovilla
V. J. Stevens	John Black Manse	J. P. Hansen
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Richmond Muning Co Ruby Hill	NAME POSTOFFICE  S. Verdigo	
Richmond Mining Co Ruby Hill Boyington & Chase Rye Patch Frank Dorman T. M. Howell Humboldt Queen G. & S.	F. Waberton James Willson	W. A. Rice - Bristol
T. M. Howell	S. S. Fairbanks	G. H. Randall
M. Co "	Ma Alta Mining Co	E. K. Moulton . Linebach Eureka Mica Mining Co. Nashua
M. Co	J. D. Page "	J. N. Kinne North Groton
CO	S. J. Robinson	
M. Co San Pedro	Mining Co "	F. J. Fuller
The Cleveland Quartz Muning Co. Sierra City	Keyes Siver Mining Co., Virginia City MartinWhite Mining Co., Ward	F. R. French. Bedford Bollins Bros Concord
Dayton Gold & Silver	Ed Harris Washoe City	W. H. Perry
Great Republic Silver &	L. Sharp F. Smith	J. S. AbbottDover Wm. L. Elder " Hall & Emerson "
Gold Mining Co . " Haywood Gold & Silver		Hall & Emerson " George & Longmaid "
Mining Co	Whitby Bros	Hall & Emerson George & Longmaid D. & C. P. Chesley Durham D. & C. P. Chesley Durham D. & C. P. Chesley Durham D. & L. Angley & Co. Fitzwilliam Dunn Bros. J. E. Fisher J. E. Fisher J. E. Fisher L. C. Willie Peter Dana Franklin Huntington & Sullivan Hanover
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Thos, Bradley Sodaville	J. Everts	H. C. White
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Overland Gold & Silver Mining Co.  New England Gold & Silver Mining Co. Skelton Thos. Bradley Sodaville A. L. Samborn Angus & Rolle J. M. Boneler Mat. Heatherston M. Heatherston M. F. Lacas J. F. Lacas U. F. Mealey R. A. Merritt John & Class Phalan John Chas. Phalan John French John French John French John French John Grobn  High Martin Martin Kennedy Sumnyside	E. Jones	D. T. Hawdien & Co H. C. White. Peter Dana Huntington & Sullivan S. C. Leazer F. B. Rodwell. F. B. Rodwell. Lebanon F. H. Freete M. F. Filzgerahl. M. G. Landrey M. Waterman Smith M. F. Sterens & Co L. M. Burns. Minord G. F. Parker N. Perham Estate of J. Sawyer Lenny & Tetro North Conway White Mountain Grante With Mountain Grante M. Beebester
R. E. Ireland.	M. Leonard K. R. McKenzie R. McLeron F. Mortimer	Amoskeag Mnfg CoManchester E S Podwell
O. F. Mealey.	F. Mortimer	M. F. Fitzgerald
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John & Chas, Phalan Sprucement	F. P. Shapp "	Waterman Smith
Wells Mining Co "	J. Wilson	Horace Willey "
John French Stollet	IRON	J. E. Fields
High Martin Marth Kennedy Sunnyside Likordan dishison Wheatley Bros. & Co. Great Western Mining A. S. Kilpatrick Mineral Chief M. & M. Co.		G. F. Parker
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Edward Robinson	Ed. Stone Bernice	Lemay & Tetro Nashua F. Blasdell North Conway
Great Western Mining	Monk Wiggins " Manuel Alvaris. Humboldt	White Mountain Granite Co Ouiney
A. S. Kilpatrick	John Sullivan Lovelocks	Co Quincy S. Hussey Rochester
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Monte Cristo Mining Co.	LEAD AND ZINC	F. C. Blodgett West Concord
A. P. Sayre		Carpenter Gramite Wks Crowley & Quinu Gay Bros A.d. Holmes
John Sheehan.	Thos. Cornell Hamilton	Gay Bros " A. J. Holmes "
Monitor & Eberhart, Taylor	Geo, C. Coulter	John McGuire
Co	John Dicholder	A. J. Holmes John McGuire H. F. Trussel & Son "Boston & Maine Railroad Wolf boro Jn.
J. C. Verzan " Martin White	Ed. J. McEllin "	Co Wolf boro Jn.
Wm. Argyle Tecoma	Louis Lani	
John Cooley	James McMullen   Doeth Thos. Cornell   Hamilton Geo. C. Coulter   John Dicholder   John Dicholder   John Dicholder   John Dicholder   John Dicholder   John Lanis   Lanis   C. A. Mathewson   John Karles   John Mayes   Geo. P. Paul   Gust. Simon   Dayad Ross   James Siri   John Siri   John Sayes   James Siri   John Siri   John Sayes   John Say	NEW JERSEY
E. Mansee	John Naves "	ALUMINUM
Myers Bros	Geo, P. Paul	Umted States Aluminum Metal Co
Stockdale Bros	David Ross	Metal Co. Boonton
Belle Isle Mining Co., . Tuscarora Commonwealth M. Co	Henry Steede.	COAL BITUMINOUS
Del Norte Mining Co . "	Davio Ross James Siri Henry Steede John Black N. Clark C. M. Neyman J. B. Wilson	
Grand Prize Mining Co "	C. M. Neyman	El Mora Coal Co Camden Sonman Coal Co Jersey City
Navajo Mining Co " North Belle 1sle M. Co. "	George Jones. Sunnyside	COPPER
NorthCommonwealthCo. "Win River	SALT	Vanderhoff & Sayer. Ogdensburg
Chicago Mining Co "		COLD AND SILVER
A. S. Killpatrick Mineral Chief M. K. M. Co  Co  Edw. Moran  A. P. Sayroarp  Lotin Sheehan  Monite C. Eberhart  Monitor S. Eberhart  Tecoma  Co  J. C. Verzam  Tecoma  Co  Lo J. C. Verzam  Co  Lo J. C. Verzam  Cohacteria  Monitor  M	Nevada Salt & Borax Co. Belleville Williams Salt Marsh Huntington Thos. Van Bibbel & Co. Oriental L. & M. Salt Works Reno Sands Springs Salt Co Stillwater	North Carolina Smelting
W. Crnekshanks.	Thos, Van Dibbel & Co. Oriental L. & M. Salt Works Reno	Co Newark Providence Gold Muning Co Plainfield El Vadesta Mining Co. Trenton
John Foster	Sands Springs Salt Co., Stillwater	Co Plainfield
J. M. Gooding	STONE, GRANITE, MARBLE AND ONYX	El Vadesta Mining Co., Trenton
John Gooding		IRON
James Graham	F. A. Bremenkampf. Eureka J. McDonald Montgomery Manse Mining Co	Champion Steel Ore Co Butzville
Jake Holly	Manse Mining Co Alexander Wise Winnemucca Jas, Sey Zelda	New Jersey Mining Co . "
Patk. Leonard "	Jas. Sey Zelda	Thomas Iron Co
A. B. Millett		Crane Iron Co . Dover
A. Peluca		De Hart Mining Co " Hibernia Mining Co "
Frank Ponano "	NEW HAMPSHIRE.	Hibernia Mining Co Franklin Iron Co Franklin Furnace Belyulere Mining Co Hazen
N. Reany	IRON	Beach Mining Co . Hazen Beach Mining Co . Hibernia
Wm. Rodgers	Ruggles & Randall Grafton	Champion Steel Ore Co Butzville Ranti Farin New Jersey Mining Co . Thomas Fron Co Kispangh Mining Co . Daville Franklin Fron Co Franklin Fron Co Bedeh Mining Co . Baker Mining Co . Ten Mile Mining Co . Ten Mile Mining Co . Jateson Jamber . Despack
Join Foliano N. Reauy Wm. Rodgers T. Tate T. Timlen Jacob Urech	Lewis P. Brown North Groton	J. Auble Peapack Forge Hill Mining Co Plainfield
	J. W. Burley	rotae trai stining corianinent

NAME POSTOFFICE	NAME POSTOFFICE	NAME C. L. Larson Hillsboro F. W. Parker
Estate of J. Cooper Port Oram Mt. Pleasant Mining Co. Port Oran Timmel Co. Cooper & Hewitt. Ringwood W. W. Marsh. Schooleys Mt. Dickeson Mining Co. Successimm Crescent Old Kilming Co. Manaque Hickscher & Sons Weldon Heckschre Sons Woldon Albert Richards.	Anson S. Copper Mining	C. L. Larson Hillshore
Mt. Pleasant Mining Co. "		F. W. Parker
Port Oram Tunnel Co	Southwestern C, & I, Co. "	W. C. Purulo "
W. W. MarshSchooleys Mt.	COLD AND SILVER	Richmond M. & M. Co. "
Dickeson Muring CoSuccasumna	Hendal Wining Co. Ablania	A. M. Story **
Crescent Oil & MiningCo. Trenton Widesle Wining Co. Wangane	Pittsburg Mining Co	Serilio Ansures
Hickscher & SonsWeldon	Silver Salt Mining CoAlbuquerque	duan Ansures "
Heckshire Sons Woodport	I, Liggin	Gadalupa Barreras "
	Hendal Mining Co Ablquiu Pittsburg Mining Co Albuquerque W. P. Funnell Alna I. Liggin	Moline Benseslado "
LEAD AND ZINC.	Claude Mining & Milling	Duiderio Borrevas
Sterling Zme & Iron Co. Franklin Furnace	Co.,Baldy	Manuel Cassiar
MINERAL PAINT	Bailey & McDonald Carlisle	Cassia Enlapis " Valing Enlapis "
	Steeple Rock Mining Co. "	Griego Fridro "
W. K. LyonsBloomington	M. B. Brown Cerrillos	Justiniano Gareio **
PHOSPHATE	Unele John Co. Claude Mining & Milling Co. Balley & McDonald. Carlisle L. H. Kestler. Service Mining Co. Cerrillos San Pedro & Canon Del Aqua Mining Co. C. A. Whitted Damicon Archuteta. Cerro Jose La Luz Attencio. Pedro A. Gamez. Black Knight Mining Co.Chloride L. S. Brown.	Silbestre Gavaldon "
Traymore Phosphate	C. A. Whited	Morsetino Hutieres
Rock Co Camden	Jose La Luz Attencio "	Manuel Samora Jose "
SLATE	Pedro A. Gomez	Melquiader Molina Jose. "
	Black Knight Mining Co.Chloride	Raca Pedro
Jones & Williams. La Fayette Owens & Rowland. Staton & Jones	J. S. Brown.	Caemiro Lusero "
Mutton, Anthony & Co. Newton	Austin Crawford " Dowlish & Dayisson "	Duederio Marques
	H. A. McGowan	Jesus Marques
STONE, GRANITE. MARBLE AND ONYX.	W. Peterson	Juan Rey Marques "
M. R. Kinney. Andover	A. O. Bailey Columbus	Secundino Martiner "
J. S. Cregar Califon	Columbus Marble & Min-	Rumaldo Mayo
A. B. Flownerfelt "	J. P. Hyland	Elias Molina
Henry Hoffman	Clark & BrownCooks	Jermin Molina
J. P. Nevius Dover	Hudgens & Elliott	Jose Romolo Molina . Jose Moya Pedro . Molina Juan Rafaee . Ambroeio Sanchez .
J. Vermer	Oustot & Overton "	Modern Child Dalate
J. H. Murphy Flemington	Shullz Bros " Peter Surey "	Ambrocio Sanchez ** Ramon Pevna **
SIONE, GRANIE, MARBLE AND ONYX.  M. R. Kinney. Andover York & Bittenhender. L. S. Cregar. Callion A. B. Flownerfelt. Henry Hoffman. L. H. Therson. L. H. Therson. L. H. Sterry L. H. Sterry L. H. Murphy Plemington Will Clark Gonverneur Bomps Hook Stone Co.Jersey City Penolscot Bay Granite Co.	Teel & Poe Mining Co	Manuel Torrer "
Penobseot Bay Granite	Steins Pass Mining & Berling Co. Deming	Volina Vidal
An able Cranite Works Kassoville	Mormon Gold Mining Co. East Las Vegas	The Graphic Mine Kelly
Co. Ansable Granite Works Keeseville O.C. Simpson. McAtee Valley Vernon Lime Co. C.A. Lighthipe. Milburn B. M. & J. F. Shanley. Newark T. Nevins & Son. Orange L.O Rourke, Duff. Searslade M. Wagner & Duff. Searslade Stewart Hartshorn. Short Hills	Vicente Gomez Black Kught Mining Co.Chloride J. S. Brown Anstin Crawford Doglish & Davisson Hill W. O. Thompson W. O. Thompson W. O. Thompson Gombins Marble & Mining Co. J. P. Hyland Col. L. P. Hyland Col. Chark & Rrow Hudgens & Elliott Oustot & Overton Shultz Bros Peter Sprey Hedgens & Elliott Welling Co. Steine Plass Mining Co. Steine Plass Mining Co. Steine Plass Mining Co. Hedgens & Elliott Gombins Co. Hudgens & Co. Hudgens & Elliott Gombins Gombing Hudgens & Elliott Gombing Co. Hudgens & Elliott Gombing Co. Hudgens & Co. Hudgens & Gombing Gombing Co. Hudgens & Gomb	Ambroeio Samehez.  Ramon Pevna Manuel Torrer  Fermin Torres  Molina Vidat Miner  The Gannita Mine  The Kelly Mine.  Patterson Bros  Mart Barber.  Kingston  W, Boyte
Vernon Lime Co	Berry & Sibold Georgetown	Patterson Bros "
B. M. & J. F. Shanley - Newark	J. H. Bragan	Mart BarberKingston
T. Nevins & SonOrange	Money Star Co	W. Boyle Caledonia Mining Co
Van Wagner & Duff Piermont	F. L. Fraziers Golden	Calcelonia Mining Co.  8, S. Call Frank Campbell. Comstock Mining Co. Cumberland Mining Co. Cumber Land Mining Co. Gray Engle Mining Co. Gray Engle Mining Co. Col. A. W. Harris R. J. Hill. Ed. B. Hoes Illinois Muning Co. Harris D. Raff Templar Mining Co. Templar Mining Co.
H. S. Seely Scarsdale Stewart Hartshorn Short Hills	J. B. Mayo "	Counstock Mining Co
Estate of Allen Hugh Stanhone	Geo. Morrison "	Cumberland Mining Co "
Estate of Allen Hugh Stanhope S.J. Sackett Tarrytown Gordon & Co Thurso	Frank White	Enterprise Mining Co
Gordon & Co Illurso	Joe Billings	Gray Eagle Mining Co "
	Sanita Fe Copper Co. Frank White Joe Billings. Gold Hill Boner & Son Clark, Sullivan & Me- Kinght Cooper Eros. Mining & Milling Co. D. R. Cumingham. Giddings Bros. Giddings Bros. E. J. dax R. B. Jones. Henry Keal MeArthur & Keeley. Miller & Zift H. C. Myers Jas. Patterson Major Trichard Standard M. & M. Co. James Sterling. Sanyder Bros. E. E. & J. O. Toney. A. E. Walker. White Tower M. & M. L. Wulkers. White Tower M. & M. L. Wulkers. White Tower M. & M. L. Walker. White Tower M. & M. L. Walkers. White Tower M. & M. L. H. Walkers.	R. J. Hill.
NEW MEXICO	Knight "	Ed. B. Hoes
	Milling Co "	Iron King M. & S. Co
COAL BITUMINOUS	D. R. Cumningham	A. Kinney
Gallup Coal Co Albuquerque	Gen Hawhes "	D. Raff " Templar Vining Co"
SanPedroCoal & CokeCo.Cabthage	E. J. dax	Virginia Mining Co "
Cerrillos Coal & Iron Co. Cerrillos	R. B. Jones	E. Walters
Gallup Cent Co Allamperque Montezuma Mining Co Abiquin San Fedro Coul & Coke Co Cabiliage Cerrillas Coul & Fron Co Cerrillos Mr. Stephens Farmington J. M. Bainster Fort Stanton John Rether Fort Stanton Aztec Coul Co	McArthur & Keeley "	Wm. Cotton Lake Valley
John Rether "	Miller & Zift "	G. A. Hammell
John Rether	Jas. Patterson "	lke Knight "
Angel Coal Co Monero	Major Pritchard "	Jas. McKinna
J. A. Flunt Raton Sugarife Coal Co	Standard M. & M. Co "	Maj. Morgan
J. J. Baca Socorro	James Sterling	J. H. Perkins
COPPER	E. E. & J. O. Toney	Wm. S. Standish & Finch
Drand & Craise Charac	A. E. Walker "	T. A. Tate "
C. E. Summers & Bros.	Win. Werney White Tower M. & M.	F. Wedgwood "  J. L. Williams "
John Bailey Kelley	Co	C. Woxlen "
James Blake	J. O. Williams	George Wright
I. S. Church	J. F. Williams. J. O. Williams. William Catin.	Iron King M. & S. Co.  A. Kinney.  D. Raff.  Templar Mining Co.  Virginia Mining Co.  Virginia Mining Co.  E. Wallers.  Win. Cotton  G. A. Haumell.  Ton Handel.  Jas. McKinna  A. D. Monroe  Mal. Morgan  J. H. Perkins.  S. A. Shelenburger.  Win. S. Standish & Fluch  T. Wedgwood.  J. L. Weill Williams.  C. Woxlen  A. Wright  George Wright  J. E. Cancera.  Las Cruces  Inter-Republic Gold &  Silver M. & M. Co.  Schredier M. Mining Co.  L. Lapoint.  Cons. Mining Co.  Alpha Gold Mining Co.  Las Vegas  Free Coinage Mining Co.  Laceral Las Vegas  Free Coinage Mining Co.  Lacericha Co.  Laceral Las Cruces  Free Coinage Mining Co.  Laceral Las Vegas  Free Coinage Mining Co.  Laceral Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral Laceral  Laceral  Laceral Laceral  Lace
J. M. Dendy	S. Burwell	Silver M. & M. Co. "
Kern Foley	William Catin "	L. Lapoint "
W. A. Graham	B. Ferriu	Schrenier Mining Co " The Stephenson-Repuett
James McGee	W. A. Patton	Cons. Mining Co
C. M. Over	Homestake Mining Co Hermosa G. C. Ailen Hillshore	Alpha Gold Mining Co. Las Vegas
G. W. Runer	S. Alexander & Co "	Jacarilla Placer Mining
Peter Strozzi	Conner King Wining Co. "	Whitehand Maning Co. Littleton
Virginia Consolidated	Dickey & Larmy	W. C. Tonkin Lordsburg
COPPER Brond & Craig C. E. Summers & Bros John Bailey Benj, Bishop James Blake I. S. Church Comely Brus J. M. Dendy J. M. Dendy J. M. Dendy J. M. Graham James Metice Mullen & Krewitz G. M. Over G. W. Rumer Davie Street Wirghia Consolidated Mining Co Sant Pedro Copper Co. Sant Pedro Santa Fe Copper Co.	William Catin	K. Foley Magdalena Davis Bros Organ
Santa Fe Copper Co	J. W. Kennedy.	Davis Bros Organ Sanchez & R bera. Penasco

NAME POSTOFFICE Beatrice Mining & Milling Co Pinos Allos A. S. Me Domain Pinos Allos A. S. Me Domain	COAL-BITUMINOUS	NAME POSTOFFICE
Beatrice Mining & Mill-		Hutchinson - Jenkins Steel Co
ing Co Pinos Altos	Riverview Coal & Mining Co Buffalo	Steel Co New York
R. V. Newsham	Co Buffalo Dominion Lumber Co - New York City,	Isle Royal Moring Co. 9
Pacific Gold Mining Co.	Dominion Lumber Co New York City, 61 Broadway	The MackirdyMmingCo.
Watte & James "	Enterprise Co	Magnetic Ore Milling Co. ** Politzor Bldg
V. C. GillettQuesta	12 Broadway Federal Valley Coal Co McKinneyCoal&CokeCo. "	New York & Puerti
Four Creeks Mining Co. Raton	McKinneyCoal&CokeCo.	Prince Mining Co "
E. Montayo	72 Broadway	Ogden Electric PowerCo.
W. E. Palmer	McKinneyCoal&CokeCo. 72 Broadway New York Underwriters & Indemnity Co. Stewart Bidg. New York & W. Virgin:a Coal & Iron Co. 31 Broadway Standard Coal & Timber Co.	45 Broadway Ogden Electric PowerCo. 40 Wall st. Tennessee Oil, Gas & Mineral Co 15 Wall st. Whitehead Maning Co Co. S. Presprey.  Part Reney
Fred W Keith San Marcial	Stewart Bldg.	Tennessee Oil, Gas & Vincent Co. 9
Simon Leyser "	New York & W. Virgin:a	15 Wall St.
Gold Eagle Mining Co . San Pedro	31 Broadway	Whitehead Mining Co
Cash Entry M. Co	Standard Coal & Timber	O. S. Presbrey Port Henry Manhattan Mining Co. Sharon Station
Pinion Mining Co	31 and 33 Broadway	
Bennett&Potter's Grand	White Cloud CopperMin-	LEAD AND ZINC
Central Mine	White Cloud CopperMin- ing Co 45 and 47 Wall st. A. H. Davis Syracuse	Hancar Zine & Lead Mining Co. of New
Co Whing & Milling	A. H. Davis Syracuse	Jersey New York
Hanover Improvement		120 Broadway
Long Wountain Wining	COPPER	Henns of Phillipe Fran-
Lone Mountain Mining	Copper Queen Consoli- dated Mining CoNew Vork City 66 John st.	Hanear Zine & Lead Mining Co. of New Jersey 190 Broadway New York 190 Broadway National Lead Co
Manhattan Gold Co	66 John St.	45 Broadway
The Silver Cell Mine "		MICA
Co Manhattan Gold Co Pacific Gold Mining Co The Silver Cell Mine. W. H. Byerts. Socorro Win. De Groot Tan Dorsey	GOLD AND SILVER	Henry Koons
Win, De Groot . " Tom Dorsey "	Etna Mining Co New York City 96 Broadway	Alex Mica Co New York
Wm. Glasson	Barcelora Mining Co	Crystal Mica Wining
Will, De Groot Tom Dorsey Will, Glasson Adna Lamson L. J. McCullough J. M. Robinson J. M. Robinson	Jedia Mining Co New Vork City 36 Breadway Barcelora Mining Co 45 Breadway Capitan Mining Co, of	Milling & MineralCo.
A. L. Mann		96 Maiden lane
J. M. Robinson.	120 Brandway	tt7 John St.
1. 8. Suffler C. H. Sperling Stein's Pass T. R. Brautt Stein's Pass Halling Bros. & Fried- wald	Cardinal Bullion Co 15 Wall st. Deadwood-Terra Mining	Palermo Mico Co
T. R. Brandt Stein's Pass	Deadwood-Terra Mining	New York State Mica
Wald wald	15 Broad st	Mining Co Utica
Harwood & Williams	Co. To Broad St. Enterprise Mining Co. 59 Wall St. Gold Bluff. Mining Co. 14 College pl. Hannott Maning Co.	a. S. & M. Peckhana . "
H. H. Bell Taos	59 Wall St.	MINERAL PAINT
L. W. Brown	64 College pl.	Clinton Metallie Paint Co. Clinton
Capt, John Kemp	Hammott Maning Co	Rossie IronOre Paint Co.Ogdensburg Ben Horner & Co
Noval & Rouito Mining	Lant old Mining Co.	Ontorio Motallia Pointtia Panha tar
*Co White Oaks	45 Broadway	
wald Harwood & Williams H. H. Bell Bennett & Miller L. W. Brown Capt. John Kemp. Geo. B. Berry Wogal & Foonto Uning White taks Auson Silver Maning Co.Whitewater Julius Williamlansor	Temple et. Lee Gold Mining Co 45 Broadway 8. Matherson Wonserratt Silver Min.	NICKEL
Julius Willgenhauser	Monserratt Silver Man-	NICKEL National Nickel Mining
Julius Willgenhauser	Monserratt Silver Min- ing Co 106 Times Bldg.	NICKEL National Nickel Mining
Julius Willgenhauser	Monserratt Silver Min- ing Co 106 Times Bldg.	National Nickel Mining to the New York City 56 Broadway
Julius Willgenhauser	Monserratt Silver Min- ing Co 106 Times Bldg.	Nickel National Nickel Mining Co State of Nickel Mining Co State of Nickel Mining Co State of Nickel Mining Nickel
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Julius Willgenhauser  IRON  Briggs & Doyle Santa Rita A. E. Dawson Whitewater J. E. Gliebrist .  LEAD AND ZINC	Monsorratt, Silver Min- ing to "" for Times Bildg, OaslsMing Co oaslsMing Coof Newada, "" 200 Broadway Oxford Gold Mining Co "" 45 Hroadway Mining Co ""	Nickel National Nickel Mining Co State of Nickel Mining Co State of Nickel Mining Co State of Nickel Mining Nickel
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Julius Willgenhauser  IRON  Briggs & Doyle Santa Rita A. E. Dawson Whitewater J. E. Gliebrist .  LEAD AND ZINC	Monsterratt. Silver Min- ing (b) 100 100 Times Bildg. 0018-Ming Coof Aveada. 9 200 Broadway 000 Broadway 000 Groadway 100 Hoodway 100 Broadway 100 B	NICKEL National Nickel Mining (0) 56 Broadway  PHOSPHATE Acme Fert, Co New York Cionizing Ming & Chemical Co I.d
Julius Willigenhauser  IRON  Briggs & Doyle A. E. Driwson J. E. Glichrist LEAD AND ZINC Autonio Quintana. E. S. Redding E. S. Redding	Monsterratt. Silver Min- ing (b) 100 100 Times Bildg. 0018-Ming Coof Aveada. 9 200 Broadway 000 Broadway 000 Groadway 100 Hoodway 100 Broadway 100 B	NICKEL National Nickel Mining (0) 56 Broadway  PHOSPHATE Acme Fert, Co New York Cionizing Ming & Chemical Co I.d
Julius Willigenhauser  IRON  Brings & Doyle A. E. Dawson J. B. Gliehrist  LEAD AND ZINC  Autonio Quintana. Seferino Lara E. S. Redding  MICA	Monsterratt. Silver Min- ing (b) 100 100 Times Bildg. 0018-Ming Coof Aveada. 9 200 Broadway 000 Broadway 000 Groadway 100 Hoodway 100 Broadway 100 B	NICKEL National Nickel Mining (0) 56 Broadway  PHOSPHATE Acme Fert, Co New York Cionizing Ming & Chemical Co I.d
Julius Willigenhauser  IRON  Briggs & Doyle A. E. Driwson J. E. Glichrist LEAD AND ZINC Autonio Quintana. E. S. Redding E. S. Redding	Monsterratt. Silver Min- ing (b) 100 100 Times Bildg. 0018-Ming Coof Aveada. 9 200 Broadway 000 Broadway 000 Groadway 100 Hoodway 100 Broadway 100 B	NICKEL National Nickel Mining (0) 56 Broadway  PHOSPHATE Acme Fert, Co New York Cionizing Ming & Chemical Co I.d
Julius Willigenhauser  IRON  Brings & Doyle A. E. Dawson J. B. Gliehrist  LEAD AND ZINC  Autonio Quintana. Seferino Lara E. S. Redding  MICA	Monsorratt Silver Min- ing (6) 100 Times Bildg. CoashsMing Coort Sevania. 200 Broadway Viford Gold Mining Co 45 Broadway 15 Broadway 15 Step Flant Silver Si	NICKEL National Nickel Mining LO 56 Broadway PHOSPHATE Acine Fert. Co. Newton Colonizing Ming & Chem Lical Co. Litt. Excelsfor Jebble Plus phate Co Foote Commercial Plus phate Co. Sel Broadway International Mica & Phosphate Co. Millia River/Mineral Land
Julius Willigenhauser  IRON  Brings & Doyle Santa Rita A. E. Dawson Whitewater J. B. Gliebrist Cerro Antonio Quintana. Seferino Lara Cerro Questa E. S. Redding MICA  Henry Collard San Antonio STONE. GRANITE, MARBLE AND ONYX	Monsorratt. Silver Min- ing to "" 100 Times Bildg. Outslying Coot Newada. "" 200 Brondway Oxford Gold Mining Co "" 45 Brondway S Takkot Mining Co "" 523 Pearl st. Sterling Wining Co . "" With Watter Blader Co "" 525 German Mining & Milling Co . "" 526 German Mining Co . "" 527 Coot of the Watter Blader Co "" 528 German Mining & Milling Co . "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 621 Coot of the Watter Blader Co "" 622 Coot of the Watter Blader Co "" 623 Coot of the Watter Blader Co "" 624 Coot of the Watter Blader Co "" 625 Coot of the Watter Blader Co "" 626 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 621 Coot of the Watter Blader Co "" 622 Coot of the Watter Blader Co "" 623 Coot of the Watter Blader Co "" 624 Coot of the Watter Blader Co "" 625 Coot of the Watter Blader Co "" 626 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot	NICKEL National Nickel Mining Co. New York City 56 Broadway New York City PHOSPHATE Acme Fert, Co. Newton Colonizing Ming & Chem- jent Co. Lett. New York Poote Commercial Plos- plate Co sil Broadway Mica & Thosphate Co Syracuse  On the Commercial Plos- plate Co Sil Broadway Mica & Thosphate Co Syracuse  On the Commercial Plos- plate Co Syracuse  Nickel  Allian RiverMineral Land Co Syracuse
Julius Willigenhauser  IRON  Brings & Doyle Santa Rita A. E. Dawson Whitewater J. B. Gliebrist Cerro Antonio Quintana. Seferino Lara Cerro Questa E. S. Redding MICA  Henry Collard San Antonio STONE. GRANITE, MARBLE AND ONYX	Monsorratt. Silver Min- ing to "" 100 Times Bildg. Outslying Coot Newada. "" 200 Brondway Oxford Gold Mining Co "" 45 Brondway S Takkot Mining Co "" 523 Pearl st. Sterling Wining Co . "" With Watter Blader Co "" 525 German Mining & Milling Co . "" 526 German Mining Co . "" 527 Coot of the Watter Blader Co "" 528 German Mining & Milling Co . "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 621 Coot of the Watter Blader Co "" 622 Coot of the Watter Blader Co "" 623 Coot of the Watter Blader Co "" 624 Coot of the Watter Blader Co "" 625 Coot of the Watter Blader Co "" 626 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 621 Coot of the Watter Blader Co "" 622 Coot of the Watter Blader Co "" 623 Coot of the Watter Blader Co "" 624 Coot of the Watter Blader Co "" 625 Coot of the Watter Blader Co "" 626 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 620 Coot of the Watter Blader Co "" 627 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 628 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 629 Coot of the Watter Blader Co "" 620 Coot	NICKEL National Nickel Mining LO Solution Service Mining PHOSPHATE Achie Fert Co. Newton Colonizing Ming & Chem ical Co. Ltd. Excelsior Jobble Phos phate Co Foote Commercial Phos phate Co. sol Broadway International Mica & Phosphate Co. Liftilla River Mineral Land Co. Syracuse
Julius Willicenhauser  IRON  Briggs & Doyle A E. Drawon J. B. Gilchrist LEAD AND ZINC Antonio Quintana. Sectrono Lara E. S. Redding  MICA  Henry Collard San Antonio STONE. GRANITE. MARBLE AND ONYX Webster Stone to San Pedro Quarry Kan Dedro Quarry San Pedro Quarry San Pedro Quarry San Lindonio San Albiquerque San Pedro Quarry San Midonio San Albiquerque San Albique San Albiqu	Monsorratt, Silver Min- ing (0) 100 Times Bildg, OashShing Coof Newada, 200 Broadway Viford Gold Mining Co 45 Broadway Shakout Alming Co 55 William St, German Mining & Mill- ing Co 6 Koolenal Placer Mining Co CYPSUM H. W. Roose, A. W. Edwards Fayetteville Linging Co CYPSUM H. W. Roose, A. W. Edwards Fayetteville Linging Co Foreign Mining Co Foreign Min	NICKEL National Nickel Mining LO Solution Service Mining PHOSPHATE Achie Fert Co. Newton Colonizing Ming & Chem ical Co. Ltd. Excelsior Jobble Phos phate Co Foote Commercial Phos phate Co. sol Broadway International Mica & Phosphate Co. Liftilla River Mineral Land Co. Syracuse
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Daniel Aker Cobleskill Reiley & Scanlon Collamer A. D. Lymans Elmira	CORUNDUM Acme Emery Wheel Co. Webster COLD AND SILVER	Bessemer City Mining & Mfg, Co Bessemer City
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Cammet Fire Brick Co	. Calumer	o. A. Mineting Patent in a		

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F. D. Smith Independence	Penn, Mining, Manufac-	McLaine & Monroe Granite
Standard Gas R. & F. B. • Ironton	A O. Deem Twin	Milwaukee Mining Co
Co Ironton Globe Furnace Co. Jackson McKitterick Bros	Columbus Brick & Fire	Emma Mining Co Haines
McKilterick Bros	Clay Works Union Furnace	Wm. A. Fisher Hardman
Tronic Furnace Co	S. Brown Vence	Preston Armstrong . Harney Elmer Boyce
Globe Furnace Co. Jackson McKitterjick Bros. Star Furnace Co. Stropic Furnace Co. Stropic Furnace Co. Hugh Bros. & Bangs. Kelley's Island M. Kent. Kent	Enos Rasor Wadsworth	H. C. Brown
M. Kent. M. P. Clambers. M. J. Crook. M. Sungaranter M. H. Suoke. M. Suoke. M. Larcaster M. H. Suoke. M. Lacavit/Sburg	Geo. Atcherson Walnut Grove	Wm. Crawford **
J. J. Crook Lancaster	Duncan & Bros	Wm. Coatsworth
A. H. Snoke	C. Dodd Waterville	R. Claypool
Geo, Burnett Leavitfsburg	James Finnett Waverly	L.d. Dant
A. H. Snoke	C. Holiday Westboro	T. J. Hellen "
Cherry Falls IronWorks Lectonia	C. Holiday	d. F. Mahon
Joseph Lyndocker Lythomatis	John Ryan "	F. P. Moore.
Hocking Clay & Manu-	W. M. Ryan	Jo. Morris . "
facturing Co Logan	S. A. Moore White Sulphur	F S Slater
J. H. Antenwieler . Ludlow Falls	doseph Smith Wilberforce	H. Sterdevant
F. M. Coopick	L. Halbeison . Willow	M. F. Williams
Fred Deeter,	Highland Stone Co Wilson	Sterling Mining Co - Jacksonville
W. F. Oglesbee. Lumbertown	Tuiting Bros	J. T. Breeden Murphy
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Clemons & Sons Marhlehead	Cox, Morris & Howells Wolf	Kiessling Bros. Kuessling & Anderson O. M. Knox A. Sehrunp W. T. Briggs S. Cloor. E. L. Goodridge P. H. Osher Geo. H. Marston Black Butte Cons. Quick silver Mining Co Bright Light Mining Co H. Burt
John Evans Marion	Joseph Davis Voungstown	O. M. Knox
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Whetmore, Robinson &	Emery Abraham Zanesville	E. L. Goodridge
Co., Middleburg	S. I. Filliott	Geo. H. Marston Pendleton
R. & B. Co Millville	A. O. Jones	Geo. H. Marston Pendleton John Mahan Picasant Valley
J. A. Elliott Morning Sun	T. B. Townsend & Co	Black Butte Cons. Quick Silver Mining Co — Portland
Seb, Cramer Moseow		Bright Light Mining Co. "
David Iver "		H. Burt Colville Mining & Devel-
Cu. Middleburg Detroit, Hocking Valley R. & R. Co. Millwille A. Ælliott Morning Sun Seb, Cramer Moscow Jacob Fosset Survey Colio Sewer Pipe Co. Sewer Pipe C	OREGON	H. Mitter Mining & Devel- Colvilling Co Bismark Mining & Mill- ing Co Gold Belek Mining Co Gold Belek Mining Co Shearer & Howell Charles Helmadael G. W. Mot ord Reid & Bart Shavis Rineheart & Davis Rineheart & Barts Rineheart & Riddles Ridd
Co. Co.	CHUNCH	Bismark Mining & Mill-
United States Sewer Pipe Co J. S. Covey Newman G. N. Kolfar New Philadelphia Lowry Baker Frank Cope M. Lyon	COAL BITUMINOUS	ing Co
J. S. Coxey Newman G. N. Kollar New Phlladelphia Lowry Baker New Waterford	Castle Rock Mining Co - Port and George Clements - Prospect	Maneral Hill Minung Co.
Lowry Baker New Waterford	George Clements Prospect	Shearer & Howell Prairie City
M. Lyon	COLD AND SILVER	Charles Helmadach "
Hains Cope .  M. Lyon	George Benson Althouse Charles Johnson Althouse W. A. Johnson William McKay C. C. Lass Jas. Turner George William Work Grant & Murray Authory	Reid & Burns.
Olive Europee Co. Olive Europee	Charles Johnson	Rincheart & Davis
M. R. Brannum Osborn	W. A. Johnson.	Lucky Boy Mining Co Princyille Will O. Brown Riddles
Cogswell Bros. Parma Renj, Deroll Perryopolis W. Fairall Perrytown D. Circle Pleasant Hill Fred Deeter Pleasant Elder	C. C. Russ	Thos, Dyre
W. Fairall Perrytown	Jas. Turner	H. P. Edgar
D. Circle Pleasant Hill	Grant & Murray . Auburn	Win, Hackler
Fred Deeter	Mullin Littlefield Co	Harmon Bros
Fred Decter: Pleasant kidge J. K. Galloway Plymouth Black Diamond Fire Brick Sou. Portsmouth C. Bode & Sou.	Grant & Murray Auburn Win, Mullen Mullin Lattlefield Co L. Barnet Austin S. Berry Austin	R. M. More
D. F. Irwin Plymouth	S. Berry S. Carpenter C. Collier Oerry Deasy L. Farmer Jake Mullen H. Rathjen D. Schuets	Nord Bowers Rock Point Thomas Carr Hosmer, Anderson & Co. J. F. Bassett Geo. W. Lance & Co Gustave Pfiel Ed. Pierce W. Pretomatain N. Ritter Alex Wilson Boo Lung Co L. Le Frans
Black Diamond Fire Brick Co. Portsmouth	C. Collier	Hosmer, Anderson & Co. "
C. C. Bode & Son	Jerry Deasy	J. F. Bassett
Portsmouth Fire Brick	Jake Vullen	Geo. W. Lance & Co Gustave Pfiel
Rolly X: Co	H. Rathjen "	Ed. Pierce . "
J. S. Nixon Rehoboth	D. Schoats E. H. Blake Baker City	W. Pretomtain
Thomas & Gardner Rimer	Geo. Borman & Co "	Alex Wilson
Joseph Inboden & Son	J. M. Boyd	Boo Ling Co Rye Valley
S. V. Howell Salem	Lorenzo Durkee	L. Le Fraus " Montgomery Tounel &
Relig & Co. Relig & Co. L. S. Nivon Rehoboth Thomas & Gardnet Rimer L. A. Brondler Rockbridge Joseph Inboden & Son S. V. Howell Salem Saden Stone & Lime Co. Salmeville Cooperative Salmeville Salmeville E. B. Loon Sardia Marray Bros. Selott Star Fire Brick Co. Selottoville E. J. Ford Secotts Crossing John Barns Selott Town John Barns Selott Town J. Brieve G. H. Summer Smith Road	Jake Mullen H. Rathjen D. Seloats E. H. Blake J. M. Boyl J. M. Boyl Louis F. Cook Lorenzo Durkee E. Ferry C. M. Fostor Indiana Muning Co Indiana Muning Co Whiter Wm. Mulkey John Pathner J. H. Paul J. H. Parker, J. F. Yaul F. L. Faul J. H. Willing Co White Swan Muning Co White Swan Muning Co J. H. Discoil J. Howell J. H. Discoil J. Howell J. H. Sariholomew K. Co H. White H. White H. White	Alex Wilson Roo Ling to L. Le Fraig Roo Ling to L. Le Fraig Montgomery Tunnel & Montgomery Tunnel & Montgomery Tunnel & Rosburg D. W. Elitzerald & Bro Sant's Valley March & Selph Wm. Payne J. L. Row & Co Dill & Brown Frank Metice K. J. Martin W. Arbie V. S. Barnard O. S. Barkhald E. E. Clough Jul Cook W. Cook
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F R Lon Sardia	C Miller	J. L. Rowe & Co . "
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G. H. Summer Smith Road Holland & Stewart South Euclid	White Swan Mining Co	O. S. Buckland
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John Brown	B. Bartholomew & Co	Henry Gibson . "
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Samuel Taylor,	W. W. Crone . Calch	M. O'Brien "
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A. I., Cort Steuben Floto Bros Steubenville	John Long . "	Henry Rogers
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John S. Booker Tadmor	John Eaton	S. Vounger.
John S. Booker Tadmor David Traver Temple John Herzog Tillin	Chas Kimball Et Sumter	tacine Coast Prospect-
Willard & Crlebton	Chas, Kimball Ft, Sumter Huntley & Schack Gold Beach	Al Waldron C. G. Weise. G. A. Wright S. Vounger. Paenfie Coast Prospecting&DevelopmentCospringfield Cable Bros Sumpter

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Janney & Taber. Sumpter Charles Rimbal T. Cameron	Joseph South Dunkard W. W. South Chas. Stewart E. S. Taylor A. D. & F. M. Spencer. Dunmore Thomas Mitchell & Sons. East Brady Womensheld.	Fairview Coal Co Meyersdale Millwood Coal & Coke Co.Millwood Abbott Coal Co Miners Mills
Lin Gin.	E. S. Taylor "	Abe Hayes Coal Co Monongahela City
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D Slagle "	Horner & Roberts. Elizabeth L. L. Beachy. Elk Lick Chamberlain & Shaw	Co
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SALT	Enterprise Coal Co. Excelsion	Middle Lehigh Coal Co., New Boston,
S. C. Hamaker Bonanza	Chartiers Block Coal Co. Federal	A. M. Franks "
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	Co	Clearfield Bituminous
Mountain Lime Co Applegate Watts & Hatton Clackamas	PortRoyalCoal&CokeCo, "	Coal Corporation Peale
Watts & Hatton Clackamas Frank Duprat Pendleton	PortRoyalCoal&CokeCo.  Lawrence & Brown Frackville J. L. Mitchell Gallitzen Passmore, Burns & Co. Gien Campbell Beech Creek Cannel Coal	411 Walnut st.
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A. C. Grove Portland	Co Gien Richey	Harvey Coal Mining Co. "
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	Hempfield Coal Co " Varial Coke Co"	333 Walnut st. N. V. & Middle CoalField
	Yellow Run Coal Co "	Ry, & Coal Co
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	Co Hastings	Co
Georgia Bauxite & Min- ing Co Philadelphia	John Shedden. Hermitage McFetridge Bros. Hiles	Thos, Barnes & Bro
506 Drexel Bldg.	J. M. Cable, Hiles Hooversville	Q. P. Jones
COAL	It It Charle 0	Samuel E. Pfoutz
Clipper Coal Co	L. A. Meyers	John Walton
Altoona Coal & Coke Co.Altoona Chas, A. Hughes	J. Walter	Samuel Brunburgh Phoenix
Jones, Simpson & CoArchbald	A. Dodson. Hopewell	Geo. Baugert Pine Grove
Glennore Coal Co	Rays Town Branch Coal	Atcheson Coke Co. Pittsburg Hartley & Marshall. Olio Sewer Pipe Co. " Pacific Coal Co "
Blossburg Coal CoArnot	Samuel Murphy Houtzdale	Ohio Sewer Pipe Co "
Avonmore Coal Co Avonmore H. 11. Gardner Bakersville Centre Coal Co Bellefonte	Samuel Murphy Houtzdale United Colleries Co Wesley Fisher Idaville	Pacific Coal Co " 110 Diamond st.
Centre Coal Co Bellefonte		Republic Coal Co "
Palla Vannan Gart a	Westmoreland Coal Co., 1rwin Sieger, Osborne & Co., Jacob's Creek J. C. Hayden & Co., Jacasville Jeddo Tunnel Co., Jeddo	Republic Coal Co " 111 Ninth av, United States Fire Clay
Coke Co Belle Vernon Graham Oil Co Big Cove Tannery Gimbert & Huey Blair	J. C. Hayden & Co. Jeansville	10
Gnubert & Huey. Blair	Jeddo Tunnel Co Jeddo	Vista Coal Co C, C, Bowman Pittston
	Glenwood Coal Co. Jermyn Jas. Brooks. Johnstown Cambria Iron Co.  J. C. Corfer. " Fulton & Cuddy. " Jonathan Horrocks."  Phon Lune. "	C. S. Crant.
Jacob Jones Blossburg B. Braznel Braddock	Cambria Iron Co, "	J. H. Moiser
The Pittsburg & North-	Fulton & Cuddy	Thos. Waddle "
The Pittsburg & North- western Coal Co - Bridgeville A. P. Isenburg - Brisbin John B. Reed - Brean Vista S. S. Hown - Buena Vista	Jonathan Horrocks "	John C. Haddock Plymouth
John B. Reed	Chartiers Valley Coal Co. Joint	Thos. Barnes. Ramey Reynolds & Lane Red Bank Furnace H. C. Burghman Redman Mills
	Hilldale Coal Co Jones Station  Wortimer & Co	H. C. Burghman Redman Mills Denning Bros St Clair
Frank Patterson " Youghiogeny River Coal	Spear & Cowan	Denning Bros St. Clair Flowery Field Coal Co
	W. G. Payne & Co Kingston Glen-White Coal & Lum-	Vista Coal Co. C. C. Bowman. C. S. Cram. Thos. Waddle John C. Haddock. Thos. Barnes. C. Burghman. C. Bu
O'Neil & Peterson. Bunola Geo. Lisle & Sons Camden J. W. H. Cook Canonsburg	ber to Kittanning Point	McClure Coke Co Scottdale
Geo. Lisle & Sons Camden J. W. H. Cook Canonsburg	James G. Henry " James McClure "	Brookside Coal Co Scranton TheChamberlandCoalCo
Canonsburg Frisbie, Blanchard & Co.Carbondale D. S. Cupp	John Turner jr "	Church Coal Co "
John Hanah	John W. Davis Lansiord	Delaware, Lackawanna
A. J. Shultz. Chartiers	John T. Williams	& Western R. R. Co
Kirkland, Fisher & Mar-	Bagdad Coal Co. Leechburg	Greenwood Coal Co
shall	LeechburgCoal&CokeCo.	Hillside Coal & Iron Co
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Jacob Whitman Cogan Station	C R Wetheran	Providence Coal Co
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Shawmut Coal Co. Du Bois	Fulton & Cuddy  Jonathan Horrocks Eben James Eben James Eben James Eben James Eben James Karthaus Spear & Karthaus Spear	Mineral Railroad & Min- ing Co.   Isaar J. Rees.   Smith & Kelser   Troutman, May & Co.   Sharon   Sharon   Shenandoah   Salem Coal Co.   Siy Mile Run   Maher & Paningardher.
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Mrs. L. Lough Dunkard	Lamberg Bros	Zerbe & Co Shenandoah
Ira Ross	Abram Avery. Marion Centre Lamberg Bros Hillside Coal & Iron Co., Mayfield Shenango Coal & Mining Co. Mercer	Sharon (100 & Coat Coat Coat Coat Coat Coat Coat Coat
J. M. Ross, "	Co Mereer	Maher & Banngardner. "

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Dunglebarger & Co. Tamaqua	Marshall Furnace Co S Capt. Chas. Doble Nickel Mines	G. McDowell & Co
Phila. Coal & Iron Co	Jos. Wharloh "	Kern & Fuller Lizzerne Slate Co
Central Connellsville	John Barkle, Orbisonia 4	Metropolitan Slate Co
NAME Grawer & Madill T. Markedick Snow Shoe Sturgeon Dunglebarger & Co. Michell & Shepp Tamaqua Michell & Shepp Tellia. Coal & Troro. Central Comellsville Tecktone Oil, Coal & Coke Co. Spring Hill Gas Coal Co. Turtle Creek Blair Bros Tyrone Elizabeth Coal Co. Mitchell Coal & Coke Co. Tippecanoe Comercial Comercial Mitchell Coal & Coke Co. Tippecanoe Comercial Tippecanoe Co	T. C. Vanzant Peter S. Duncan Ore Hill Cranberry Improvement	Metaoow Brook State Co  Metropolitan Slate Co  E. B. Neff & Son  Slatington Slate Co  Washington Slate Co  Wishington Slate Co  Sterline Slate Co  G. G. Williams & Co
Coke Co Tippecanoe		Washington Slate Co "
Spring Hill Gas Coal Co.Turtle Creek	Co., Philadelphia  131-141 S. Fourth St.  141-15 N. Seventh St.  1415 N. Seventh St.  Kathon Chemical Co., " Pledmont Mining X	Sterling Slate Co Walnutport
Elizabeth Coal Co	Dufford Mining Co	
Mitchell Coal & Coke Co, "	1415 N. Seventh st.	J. E. Williams & Co West Bangor Harding, Reimel & Co Wind Gap
Youngstown Coal Co.,	Kalion Chemical Co	Vork & Peach Rotton
United Coal & Coke Co., United	Smelting Co Pittsburg	Slate Mfg, Co Vork
d. Cochran, Sons & Co Vanderbilt	Piedmont Mining & Smelting Co Pittsburg Pottstown fron Co Warwick Iron Co	
Joseph Laughrey "		STONE, GRANITE, MARBLE AND ONYX
	Lewis Lamp, Leghorn Mining & Man- ufacturing Co Reading 720 Centre av.	Jones Acker. Alburtis
John Cleary Wampum Jonathan AllisonWashington	Leghorn Mining & Man-	A. Dankel.
A. A. Allison Washington A. A. Allison Waynesburg,	ufacturing Co Reading	Montour Quarry Co Uniform Stone Co. Aldemia Allegheny A. T. Biery. Crin Bros
J. D. Flowers		J. T. Biery. Allentown
Robert Hoskinson "	Wilson Averill . Saltillo	Crin Bros " R. Schall . "
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dolm Zook **	Topton Furnace Co	Levi Knott . " W. I. Shullankaraar
Thos. Faucet & Son Webster		Brightbill & Son. Annville
A. G. Leonard & Co. West Brownsville	Juniata Mining Co . Tyrone R. Hoover Woodbury	Hathaway, Putnam &
Geo, Jones & Co West Elizabeth Stoner & Co West Newton		Brightbill & Son. Annyille Hathaway, Putnam & Fimplepaugh Ararat
Hos. Fancet & Son. Webster Hama Bros. West Brownsville A. G. Leonard & Co Geo. Jones & Co West Flizabeth sloner & Co West Newton West Newton Coal Co Advance Coal Co Wikes Barre The Algonquin Coal Co Cabin Creek & Kanawha Coal Co	MICA	Lewis Lemon. Auburn Four Corners
Advance Coal Co Wilkes Barre	John D. Smedley Lima	A. C. Morris & Co. Ayondale
The Algonquin Coal Co. "	MINERAL PAINT	John Brooks Baker's Landing
Cabin Creek & Kanawha Coal Co **		Hiram Hicks
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Haddock, Shock & Co.	Keystone Palut Co "	Holmes & Sievens Birmingham Brechbill & Webbert. Boiling Springs
Langeliffe Coal Co	Rutherford & Barclay, Philadelphia	A. M. Leidich
Midlothian Coal Co	Pittsburg Iron Paint Co.Pittsburg	John Lewis. Brodbecks
Grassy Island Coal Co.,	THE SHIP THE PROPERTY OF THE SHIP TO SHIP THE SH	George Hogg "
Midolitian Coal Co. Grassy Island Coal Co. Lid. Winter T. J. Wood Woods Run F. Arustrong Woodyille	SALT	W. P. David & Co., Bridgeport
F. Armstrong Woodville	Allegheny Salt Co., Ltd. Etna	Henderson Marble Co.
	Allegheny Salt Co., Ltd Etna Lehigh Salt Mining Co. Philadelphia 228 S. Third st.	W. B. Rambo " G. M. Coon Canton
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Maryananhala Blas Class	t chiral santa can canting	
Parallela File Cay	facturing Co. "	Connor & Beeker Carbondale
Monongaliela Fire Clay Co Beaver	facturing Co. Pittsburg Salt Co. Pittsburg	Fra Cox
	Pittsburg Salt Co Pittsburg	Carbondale Ira Cox W. S. Harrah. J. Hostetter
COLD AND SILVER	Pittsburg Salt Co Pittsburg  SLATE  Plant: Discount Slate Co Assessment	Comor & Beeker Larbondale Lara Cox W. S. Harrah, J. Hostetter Mann Lepley
COLD AND SILVER	Pittsburg Salt Co Pittsburg  SLATE  Plant: Discount Slate Co Assessment	Comor & Becker   Carbondale   Fra Cox   W. S. Harrah   Casselman   J. Hostetter   Adam Lepley   Isaae Kane   Chambersburg   Chester   Ch
COLD AND SILVER	Pittsburg Salt Co Pittsburg  SLATE  Plant: Discount Slate Co Assessment	Carbondale Fra Cox W. S. Harrah. J. Hostetter Adan Lepley Isaac kan L. O. Deshong A. O. J. O. Deshong Shaw, Evroy & Co., Ltd.
COLD AND SILVER John P. Scarff . Pittsburg P. O. Boy 368 Millside Muning Co. Tunkhannock	Pittsburg Salt Co Pittsburg SLATE  Riack Diamond Slate Co., Aquashicola J. Keath & Co. Monarch Salte Co. Vell & Houck Vell & Houck	Commor & Beeker   Carbonolafe   Fra Cox   W. S. Harrah.   Casselman   J. Hostetter   J. Hoster   J. Ho
COLD AND SILVER John P. Seartl Pittsburg P. O. Box 368 Millside Muning Co. Tankhannock IRON	Pittsburg Salt Co Pittsburg SLATE  Riack Diamond Slate Co., Aquashicola J. Keath & Co. Monarch Salte Co. Vell & Houck Vell & Houck	Ira Cox W. S. Harrah. J. Hostetter J. Hoster J. Hoster J. McCrea J. Hoster J. H
COLD AND SILVER John P. Seartl Pittsburg P. O. Box 368 Millside Muning Co. Tankhannock IRON	Pittsburg Salt Co Pittsburg SLATE  Riack Diamond Slate Co., Aquashicola J. Keath & Co. Monarch Salte Co. Vell & Houck Vell & Houck	Ira Cox W. S. Harrah. J. Hostetter J. Hoster J.
GOLD AND SILVER John P. Searth Pittsburg P. O. Boyaks Millside Muning Co. Trankhannock  IRON Geo. Albright. Alburtis John S. Butz	Pittsburg Salt Co Pittsburg  SLATE  Black Diamond Slate Co. Aquashicola J. Keath & Co Bangor Monarch Salte Co. " Nell & Houck New York Slate Co. " West Bangor Slate Co. " Hughes Slate Co. Belfast Hughes Slate Co. Belfast	Ira Cox W. S. Harrah. J. Hostetter J. Hoster J.
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GOLD AND SILVER John P. Searth Pittsburg P. O. Boyaks Millside Muning Co. Trankhannock  IRON Geo. Albright. Alburtis John S. Butz	Pittsburg Salt Co. SLATE  Riack Diamond Slate Co. Aquashicola J. Keath & Co. Hamor Monardt Slate Co. To. Hamor Monardt Slate Co. To. To. To. Hamor Slate Co. To. Hughes Slate Co. Heefast Reck, Shoemaker & Roberts J. T. Jeter & Co. Berlinsville J. Week & Co. Berlinsville J. Week &	Ira Cox W. S. Harrah. L. Hostetter W. S. Harrah. L. Hostetter L. Hostetter L. Hostetter A. O. J. O. Deshong A. O. J. O. Deshong Shaw, Esrey & Co., Ltd. John Dyer Win, Ritter Win, Ritter Levis, Hartman & Co. Las, Porter L. C. Stonfler James Beatty, Wiehael O'Brien H. Graybill Compersburg Coopersburg
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Howard Holt G. Reese, Ephraim Kimble lagdad Mondel lagdad Mondel lagdad Mondel lagdad Mondel Harrison Noshit Harrison Noshit Harrison Harrison J. McCauly J. Sutthers J. McCartney Wass & Liniger Wass & Liniger Wise Mondel Lumberton Granife Co.	**	Bound & Boone J. Trout Hoadley & Fish M. Montgomery M. S. Silvara E. Bunnell Tewksbury & Co. Samuel Caskle Griffith R. Dayles & So F. C. Granite Co. Pennsylvania Granite J. Prino	Statington	24 24 21	MICA Fort Wills
C. H. Dulters	Littlestown Lumberville	Griffith R. Davies & So	m Smedley	M. M. Manney J. C. Lee Denday & Sitton H. W. Kuhtman.	Long ('reek
	McKee's Gap	F. C. Grante Co PennsylvaniaGraniteC	0.	Denday & Sitton. H. W. Kuhtman.	Wainana
J. Carl Manning & Davis	ale it is some	J. Prim Talbot & Co Jas. Torbert	**		
Manning & Davis. W. M. Rice McManns & Reiley	McGee's Mills Manorville	Jas. Torbert	Southampton Spring Mount	Horseshoe Mining Bamburg Allish I Bg. Co Beaufort Phosph: Carotina Manufa	Co. Ashepoo
J. Gower J. C. Conner A. J. Quick M. C. N. Johnston Saml. Johnston	Manorville Mast Hope	Geo. Miller	Spring Mount Sumneytown Swarthmore	Bamburg Atusu I Bg, Čo	Bamburg
A. J. Quick	Milanville	C. G. Ogden & Co	Swarthinage	Beaufort Phospha Carolina Manufa	ite Co Reautort cturing
M. C. N. Johnston	Morton	Wm. Beaver.	Swatara Station	Co	(fo. "
Saml. Johnston. A. Merkel John Conrad D. B. Boyd. R. G. Duncan. Jacob Hout. J. G. Kefter J. R. Davis. J. Haulton.	Moselem Mt. Joy	Jas. Torbert. John Conrad. Geo. Miller. Michael Honan. C. G. Ogden & Co. Wm. Beaver. Cyrus Gaugrich. S. M. Gaugrich. Christ Hersbey. Wm. Berryson. L. Zimmerman. Daniel Coleman		W. Y. Tripp	te Co
D. B. Boyd	Mt. doy Mt. Pleasant	Wm. Rerryson		Ashepoo Phospha Atlantic Phospha	te Co., Charleston
lacob Hout		L. Zimmerman	Terrytown Thornbury	Barton Phosphat	e Co. "
J. G. Kefter	Moyer Nanticoke	J. H. Brinton	Thornbury Tivoli	Eureka Manufac	turing
J. Hamilton		H. J. Schmoyer	Trexiertown Tyrone	Co Florida Phospha	te Co "
Andrew Mosher	New Genoa New Milford	A. J. Morris	Umontown	E. J. Hunahan.	
J. R. Patyls. J. Hamilton R. T. Williams Andrew Mosher. Wm. Holmes Henry Mitchell Frank Carlucci	Newport Newtown	Eli D. Logan & Bro	Unionville Upper Boxboro	Eureka (Co., Florida Phosphate, J. Humahan, Imperial Fert, C. Mt. Holly Min Manufacturit Royal Fert, Co. Wanda Phosphat Wilcox & Gibbs F. Coosaw Manufa.	ing &
Frank Carlucci	Nicholson Oakdale	C. A. Allen.	Velarde	Royal Fert, Co	ig Co
C. Bosler & Son	Ogontz	Good, Guffy & Boyd.	Wall Wampum Warwick	Wanda Phospha	te Co Tert. Co.
A. J. Engle	Parkside	Fox Hill Granite Co.	Warwick Water Cure	Coosaw Manufa	eturing Coosaw
Bridgeport & Consl.	Philadelphia	A. J. Jolly & Co	Watsontown	Greenville Fert.	CoGreenville
D. C. Cleaver	i.	Henry Hoyt	Warnes	Gate City Phospi	Jacksonboro
Frank Carmeet. J. S. Rodgers C. Bosler & Son. A. J. Engle N. K. Detrick Bridgeport & Consh hocken Stone Qy. D. C. Cleaver 19th & Spg. Garden & Conshohocken Stone C	0.	R. H. Johnson	Wayne Waynesburg	Baldwin Fert. C	Coosaw Co. Greenville hate Co.Greenwood
David Jones		J. Rusk.	Webster	Campbell & Her	zRantowies
David Jones 733 Green st. New England Brow stone Co	'11-	Wm. Berryson L. Zimmerman Daniel Coleman J. H. Brinton. George Newman H. J. Schmoyer. A. J. Morris Boyd & Co. Elili & Klander. C. A. Allen. Good, Guiff & Boyd. Joseph Codo Fox Hill Grantie Co. J. Hicks' Bros. A. J. Johly & Co. James Armstrong. Henry Hoyf R. H. Johnson J. R. K. Klender. J. R. K. Johnson J. Risk A. Kelley George Hammelt Pittsburg Limeston Henry Limeston J. Risk J. Ri	Weldon	W. M. Cumming Golden Gate Min	ing Co. Spartansburg
2202 Chestnut st.	**	Pittsburg Limestone Schmucker & Co	To, trimminantis	Wm. Gregg	ing Co. Spartansburg Summerville Sumter
stone Co 2202 Chestnut St. Old Dominion Co Pennsylvania Granite 20 S. Broad St. Portable Improvement	'0.	Schmucker & Co John Crabb. Wm. Little John Foster	Winfield William Penn		MARRIE AND ONY)
20 S. Broad St. Portable Improveme	nt	John Foster	Winterdale Wymps Gap	T. G. Lamar & C	oBath
Company	.,	John Foster E. Emne E. Robbins York Hayen Paper	Wyoming Vork Haven	R. McNamee & Black & Reese.	Co. Blacksburg
B. M. & J. F. Shanley	"	York Haven Paper	to. YOR Haven	A. J. Martin	S.1.1.1.1 "
1429 Market St. Southern Red & Bro	wn		TIN	Columbia Grani	te Const.
Company				Vork Granite C	Co. Bath Co. Blacksburg Ete Coust. Columbia Co. Vorkville
S. P. Wetherill Co		Stephens Tin Co			

DOMESTICK

POSTOFFICE

### SOUTH DAKOTA

## COPPER

NAME POSTOFFICE Copper Nob Mining Co., Galena

#### COLD AND SILVER

Calumet Mining Co Chevenne Consolidated	
Mining Co	**
Higland Mining Co.,	
KeystoneChloride&Min-	
ing Co	4.6
McDonnell Mining Co	44
Silver Queen Mining Co.	
A. C. Boland	Rapid City
Homestead Mining Co	***

#### CYPSUM

W. T. Powers.. Spearlish S. Plaster & Stucco Co Sturgis

### STONE. GRANITE. MARBLE AND ONYX

M. M. Donald	41.3
W. V. Doyle Piedmont Improv	Galena
Fredmont improv	ement
Co	Piedmont
Felix Poznansky	Rapid City
E. M. Reeves.	**
T. Sweeney. Drake Granite &	
Drake Granite &	Petri-
Hed Wood Co.	Siony Falls
John Burke	
C. Kane	
Wm. Nolan.	**

TIN	
Hennessey & Co. Mark Hydliff	Bear Gulch
Jensen & Jackson.	
McMakin & Co.	**
White & Jensen A. Brooks	Carbonate
Henry Albien & Co.	Custer City
Clark, Wood & Co. Gaylord & Russell.	
Charles Hamilton	**
Harney Peak Mining	f.,
Milling & Mfg. Co. Frank Herbert	
E. L. Hunt.	
Kleeman & Co. C. Lincoln & Co.,	
McLaughbu & Co.	44
Wm. Olds & Co	**
Girard & Co	). Etta Mine
J. T. Reed	4+
Swanzy & Co	
T. Wheelock & Co August Engle & Co	.Hayward City
Henry Hues & Co	**
Irwin Allum & Co B. Ottershager	**
F. G. Seirth & Co	**
M. Thomas	Hill City
Allen Coole & Co	min's ity
Victor Comiler .	**
John Good & Co. John Phelaw & Co	44
Rhinehart & Co	Lead City
L. L. Davis Francis & Co	Rapid City
James Haft	
Jacoby & Everly	**
Scott & Ward Sweeney & Co	
Woods & Co	**

#### TENNESSEE

#### COAL

John Keohler	Altamont
S. H. Northent & Co	**
W. W. James & Co	Bristol
James Alexander	Byrdstown
Chas, S. Burr	44
Thos. Lindsay	Caryville
Hy. Miller	
J. F. Smiddy	**
J. F. Wheeler	11
Leander Wilson,	
Blue Springs Mining Co	cChattanooga
Geo. M. Clark	
Care of James & Co.	

NAME.	POSTOFFICE
Dade Coal Co.	Chattanonga
G. W. Ware	**
Empire Coal Co	Coal Creek
John T. Evans	**
Geo. Pickett	4.6
Royal Coal & Coke Co	
Shamrock Coal Co	**
Jacob Wyatt	Crossville
Chattanooga Pottery Co	). Daisy
Dayton Coal & Iron Co	Dayton
Geo. Furman	***
Glen Mary Coal & Cok	(*
Co	Glen Mary
A. L. Spears	Jusper
Consolidated toa! (	
Iron Co	Keliey's Ferry
McNabb Coal & Coke Co	
T. P. Marshall & Co .	
Coal Creek Mining &	<
Manufacturing Co	L'anny villa
Emmail Lance	ACHOXVIIIC
Knoxyille Iron Co	
<ul> <li>Monarch Coal &amp; Coke Co</li> </ul>	
<ul> <li>Southern Jellico Coal Co</li> </ul>	
<ul> <li>Ban An Coal &amp; Coke Co</li> </ul>	eSparta
J. L. Wierick	Spring City
J. L. Wierick Richards & Howards	Welker Mines
Roane Iron Co	

#### COPPER

J. F. Hicks & Co.	Bristol
Burra Burra Co	Ducktown
Ducktown Sulphur,	Cop-
per & Iron Co	

#### COLD AND SILVER

E. L.	Barnes.	Newburg
Wm.	Grinder	
John	Johnson	16
S. L.	Weatherly,	
J. D.	Vaughn & Co	Reliance

## IRON

Daniel Fultz	Altamont
W. A. Griswold & Co.	14
	Bristol
V. M. Cavinte .	Decaturvill
Embreeville Freehold	
Land, Iron & Ry. Co	
Litua Iron Co	Ivy Mills
Southern Iron Co	
Elk Valley Coal & Iro	n
t'o	
	Newburg
Baski Hensley	**
David Himes	4.8
J. W. Rider	+ 1
W. M. Snyder	Spring City
A H. Kidd .	Summertor

#### LEAD AND ZINC

olm Winkley	Marble Swite
br. E. Hensley	Newburg

#### MINERAL PAINT

Chattanooga P Scholze Bros	aint	Co.	Chattanooga
W. C. Thatche	ľ.		**

#### STONE, GRANITE. MARBLE AND ONYX

A. J. Griffin	Bon Aqua
J. A. Dickey & Co	Bristol
Chattanooga Marbie	K.
	( Proffman
Kelley Bros	Chattanooga -
Kelley Bros	
d. W. Boyd	Cleveland
Boyd & Miniks	
Evans & Million Bros.	**
B. McGuire	Crossville
Chattanooga Pottery (	'o Daisy
W. H. Trick & Co	Decaturville
Bridgeport Stone Co	
	Deptford
	Lvy Mills
John Cothaus	
A. J. Depriest	**
Geo. Goodman	
W. D. Mumphreys	**
Jasper Mining Co	Jasper
Crescent Marble Co	Knoxville
T. S. Godfrey	KIROCVIIIe
Knoxville Marble Co	11
Monarch Marble Co	
Stinet Marble Co	* *
J. W. Boyde	Marble Switel
E. C. Duckett	44
	Memphis
Dewar, Grandison & C	a silpini
J. Kastner	44
F. Quigley	
Wingley	

d. d. Cam	NUSHVIIIE
W. H. Haslam	**
A. E. Howell	**
G. W. Burgus & Co.	
Cambria Marble Co	Powder Spgs, Ga
Fulkerson, Chestmit&	Co.Rogersville
Hawkins County Mar	
Co	
Hormshell & Co	
J. M. Pierce	**
J. H. Price & Co	**
W. D. Russell	
South Pittsburg Co	n -
	Co.South Pittsburg
J. Poland	
Wm, West	**
Tazewell Cement & Li	me
Co	

### TEXAS

## COAL BITUMINOUS

E. B. Pue	*Atascosa
F. G. Tensley	**
Peerless Coal Co	
Kulffin Coal, Coke &	Min-
ing Co	Dallas
Hy. Greathouse	Decatur
Eagle Pass Coal Co.	Eagle Pass
MontagueCoalMin1	ngCo.Ft. Worth
Texas & Pacific Coa	d Co. "
Laredo Coal Co	Laredo
Texas Coal & Coal M	ining
Co	San Antonio

## Texas & Pacific Coal Co.Thurber

COLD AILD	OILTER
S. Meyer	.Bandera
M. A. Molina	Beldon
Silver Pass M. Co	Cleburne
Florence E. Mining Co.	El Paso
Hand & Maltby	. Van Horne

#### IRON

La Belle Mining Co Dallas	
Llano Imp. & Furn, Co Llano	
Ressemer Iron Wining &	
Mfg. Co., Pittsburg	
La Fortuna Mining Co., San Autonio	

#### SALT

Texas Salt Co Colorado Star & CrescentSaltWks.Grand Saline

#### STONE GRANITE MARRIE AND ONYX

STONE, GRANITE, W	IARDLE AND UNIX
Shultze & Moyer, E. B. Pine	. Atascosa
M. A. Molina	Belen
J. M. Padilla.	**
S. T. Bealock	Decatur
Ed. Johnson. Geo. Stotts	
T. S. McSpadden	tordon
J. T. Wilbar	. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C. O'Keefe	Granite Mountain
Burgher & Stevens	Honey Grove
J. K. Fjuley	Llano
J. Goodman.,	Maria Hara
E. I. Heppenheimer Texas Mining & Imp. (	Marble Falls
W. B. Moody.	Rockdale
Edward R. Braddon	
Sons	San Antonio
Witte Niggli	· · · · · · · ·
Mike Solan	Weatherford

## UTAH

#### COAL BITUMINOUS

COA	AL BITU	MINOUS
H. Leigh		Cedar City
T. Taylor Geo. Wood		
Coalville Coal	& Coke Co	Contrille
C. H. Spriggs		
P. C. Christen		Mt. Pleasant
Jas. P. Gunde William Cass:	erson	Daniel mane
William Denn	Rev	.Ruckport
Frederick Jo	lin	

#### COPPER

Victoria Copper	Mining
Co	Ashley
Adams & Bladen	
Montreal Mining	Co. Milford
Al Summale	

COLD AND SILVER NAME J. T. Evans. T. M. Reese Rees, Griffith & Sons. Chas. Roble B. Bates B. Alpine City B. Bates B. Alpine City B. Bates B. Alpine City B. Bates B. B. Bates B. Alpine City B. B. Bates B. B. Bates B. B. Bingham Canyon Brooklyn Mining Co M. W. Bayls B. Bingham Canyon Brooklyn Mining Co M. W. Bayls B. Bingham Canyon Brooklyn Mining Co M. W. Bayls B. Bates B. Bates B. Bingham Canyon Brooklyn Mining Co M. W. Bayls B. Bates B. Ba	NAME POSTOFFICE	STONE, GRANITE, MARBLE AND ONYX
J. T. Evans Postoffice	Edw. Pike Provo City Second to None Mining	NAME POSTOFFICE
T. M. Reese	Co	S. Marsh Alpine City
Chas. Rolfe	Care A. L. Towle, The Dixie Minlag &	Lunt Bros. & Co Cedar City
B. Bates Alpine City	Smelting Co St. George	Culner Bros Fort Duchesne
W. Dundson	Second to None Mining CO. The Mining & The State Mining & State Mining St. George Gen. Logan Mining Co. Salt Lake City The Lacky Boy Mining Co. Care NicholasTreweek Mohawk Queen Mining Co.	Gilson Asphalt Co "
E. Nash "	Co	Mountain Stone Quarry Park City
M. T. Woods	Mohawk Queen Mining	Silver Branch Stone
& S. Mining CoAmerican Fork	Monte Cristo Mining & Milling Co	Diamond Kyune & Cas-
W. H. Grant	Milling Co	14 Commercial Block
Edw. Weim	North Tintie Cons. Min- ing Co	National Rock Co "
A. N. Beinis Bingham Canyon Brooklyn Mining Co	ing Co	F. G. Peterson.
M. W. Davis	St. Louis Argenta Min-	753 S. Third East John Sherriff & Co
Dan Heaston "	O. J. Salisbury	Second Souths, W. cor.
Dan Heaston	York Mining Co "	Thistle Rock Co "
Co	ing Co	NAME. BRANDER AND ONLY  NAME. Alpine City  Napier Bros. Castle Gate Lind Brock Co. Cedar City  Culner Bros. Co. Cedar City  Culner Bros. Gate Gate How the Control of the Control  Culner Bros. Gate Mountain Stone Quarry Park City  Silver Branch Stone  Diamond Kynne & Castle City  He Commercial Block  National Book Co. Salt Lake City  He Commercial Block  National Book Co. Tit Culner Block  F. G. Peterson. Est  John Sherriff & Co. Second South West  Thistle Rock Co. 22 W Second South  Varley & Everill. Springville  J. Smith  SULPHUR
Telegraph Mining Co "	P. H. Connell "	147 S. West Temple
south Galena Mining Co. Telegraph Mining Co. Vosemite Mining Co. J. F. Carrell. Daniel Cook. Caineville	Wm. Gindry	J. Smith
Daniel Cook	J. F. Koppes	SIN DUID
Stephen Fornsworth	Jas. McLaughlin	
Seepner Forsworth E. K. Hauks. Mount Baldy Mining Co.Castle Gate Davis & Schmidt Eureka Eagle Mining Co Eureka Centennial Min- ing Co	Northern Spy Mining Co. "	Barnes Sulphur Co. Salt Lake City
Eagle Mining Co Eureka	Ocean Wave Gold & Sil- ver Mining Co	
Eureka Centennial Min-	R. S. Reed	
Eureka Hill Mining Co. "	Shoner Cons. G. & S. M.	VERMONT
Northern Spy Muring Co. " Northern Spy Muring Co. "	H H Sowlas	IRON
Seneca Consolidated Co. "	E. B. Walker	J. C. Orom . Brandon
S. Kaiser Greenwood	Jas. G. Wilder Silver Reef	LEAD AND ZINC
Adam Peterson Huntsville Carl E. Peterson "	Ignosi Mining Co	John Hastings Brandon
Fred. Syrett & Co Kingston	Levi Curtis	
H. B. Westover	R. J. Kroupa	MINERAL PAINT
W. Fairhurst Magnolia The Gold Blosson Min-	Samuel F. Lee Tooele	Leicester Mineral Paint Co Leicester
ing Co	gnoss Mining Co. Springville Brooklyn Mining Co. Springville R. J. Kronga. North Star Mining Co. Samuel F. Lee. Tooele A. Anderson. Vermon Bennion Bros. J. Cook. P. Hanson. F. Jorgenson. G. Rollins. G. H. Roulins. D. Sharp. J. Sharp.	
Desert Mining Co. Marysvale	J. Cook	SLATE J. J. Jones Castleton Goodwin, Metcait & Co., Fair Haven Hatch Hill State Works. Hazard Slate Co. J. Pieres. Scotch Hill State Co. Scotch Hill State Co. Adams Slate & Tile Co. A
Gold Hill Mining Co " Richfield Mining Co	P. Jorgenson "	Goodwin, Metcaif & Co., Fair Haven
Q. T. Clark Milford	O. H. Rollins	Hazard Slate Co
Star Mining Co	C. D. Saxton	O. J. Pierce
Jos. Banks jr Minersville	J. Sharp "	M. H. Vail.
Wm. J. Davis	IRON	Adams Slate & Tile Co Northfield
Jas. Gallop	T. Taylor Cedar City	J. W. Deane Poultney
Louis Lessing	LEAD	Griffith & Nathaniel "
Alma Aque & Co Mona	Lee L. Clark Alpine City	New Empire Slate Co "
J. Harris	H. Healy " R. W. Jones "	G. Parker & Son "
L. Holdaway	Lee L. Clark Alpine City H. Healy H. W. Jones	T. R. Griffith West Pawlet
S. M. Reed	Alma Aque & Co Mona	O. R. Jones & Co "
E. B. Roberts	L. Babcock " James Burraston "	SOAPSTONE
B. Young	J. Harris " L. Holiday "	Union Soapstone Co Chester
Jonas H. Eriksen	Elias Molyneux "	STONE, GRANITE, MARBLE AND ONYX
Jas. Lemont	Wm. Paterson & Co " S. M. Reed "	Jas. G. Brown Barre
Nebo Mining Co.,	E. B. Roberts	Jas, G. Brown Barre Forsyth & Ingram . Green MountainGranite
ing Co Ogden	John Yates	Co
Care of S. S. Schramm David Kay	A. P. Young.	S. Kimball "
Stevens Bros	Hickman Mining Co. Nephi	J. W. Magoon " Monumental Granite Co"
Jas. Applebe Ophir	Alliance Mining Co. Park City	J. B. Taylor
Banner Mining Co	Daly Silver Mining Co	Bardillo Marble Co Brandon
Frank Burk	C. W. Bennett Salt Lake City	Corona Marble Co " S. L. Goodell & Co "
Mount fairly Mining Co. Castle Gate Davis & Schmidt. Eureka Eagle Mining Co.  Eureka Hill Mining Co.  Eureka Hill Mining Co.  Gahn Tunnel Mining Co.  Northern spy Mining Co.  Seneca Consolidated Co.  Finte Tunnel Co.  Finter Tunnel Co.  Fint	J. Harris. L. Holiday. Ellas Molyneux. Wm. Paterson & Co S.M. Reed E.B. Roberts. W.A. Marr. J. Harris. J. Harr	Neshobe Marble Co "
Lion Mining Co " V. A. MacDonald "	SALT	Thayer & Simonds
Monarch Mining Co "		Trojan Marble Co
Monarch Mining Co	Utah Salt Co	Plint Bros. & Co Centre Rutland
Ophir Hill Mining & Mill-	Redmond Salt Co Redmond	W. M. Carnes East Barre
Peter J. Pollock	Salina Salt Beds Salina Inland Salt Co Salt Lake City	Vermont Red State Co. Fair Haven
Co. " Ophir Hull Mining & Miling Consolidated Co." Peter J. Pollock. " Isaac Roland. " Geo. St. Chair " Utah Gum M. & M. Co." Meears Mining Co. Park City Park City Mining Co. "	G. Williams Bros Redmond Salt Co Redmond Salt a Salt Log Salt Lake City Jerenny & Co Salt Lake Gliserite Co Syracuse Salt Co J. E. Hull & Co Springville	Green MountainGrante Jones Bros S. Kimbal J. W. Magoon J. B. Taylor K. B. Godfreys Green MountainGrante Green MountainGrante J. B. Taylor K. B. Godfreys Green Grandon
Utah Gum M. & M. Co	Syracuse Salt Co "	Continental Marble Co. Mauchester Addison County Marble
Park City Mining Co Park City	J. E. Hull & Co. Springville	Cutter Marble Co Middlebury
	- Pringrin	The state of the s

NAME POSTOFFICE E. P. Fletcher Modifichery Excelsior Graine to Montpeller Growing Commentumer Grand Commentumer Grand Commentumer Smith & Co. Pittsford Smith & Co. Rutland T. M. Deal. St. Albuns Garriek Bross. Granited Sot. Johnsbury Kent & Root St. Mont Dorset Tyret & Kent St. Bine Mount Granite Co. South Ryegate Clark Bros American Marble Co. West Bunninerston American Marble Co. South Ryegate Clark Bros American Marble Co. South Ryegate Clark Bros American Marble Co. South Ryegate Clark Bros American Marble Co. South Ryegate Corylle Marble Co. South Ryegate Corylla Marble Co. South Ryegate Corylla Marble Co. South Ry	NAME Richlands Flint Glass Co. Richlands Long Creek Co. Richmond The Southern Coal & Iron Co	Virginia Steel, Iron & Virginia Steel, Iron & Salte Co
VIRGINIA	Bull Run C. & I. Co Warrenton Shenandoah Lumber &	ALUMINUM
COAL	Iron Co Winchester	1da Aluminum M, & Mfg, Co Spokane
Belle Hampton Coal & Iron Co Belle Hampton R. A. Ayers Blg Stone Gap J. B. Singleton of Lether L. K. Taggart Win A. Bell Blacksburg M. Kipps Coal Blacksburg M. Kipps Coal Blacksburg M. Co Baggart Coal Blacksburg M. Elliott skinol from Coal Engine Co	ELAD AND EINO	COAL-BITUMINOUS
R. A. Ayers. Blg Stone Gap	Glen Mills Barytes Co. Marion	Puget Sound Fire Clay
J. K. Taggart	MANGANESE	Piget Sound Fire Clay A. Sherwood
M. Kipps. " Fillott sknohlrons Coul	P. H. Childer Wayneshoro	provement Co New Whatcom
Co Buffalo Gap	MICA	R. R. Co
0.50	Booker Robertson Amelia	Eagle Coal Mining Co.
Allegheny Trading Co. Clifton Forge Farnville Coal & IronCo. Farnville Midlothian Coal Mining Co Midlothian	PHOSPHATE	MonarchCoal Mining Co.
Midlothian Coal Mining Co. Midlothian	Alexander Fertilizer & Chemical Co Alexandria	Purham Coal Co
d. R. Keister Prices Fork P. P. Shennerd	Standard Phosphate Mining Co. "	Puget Sound Clay Co . Seattle
Co Midbothian A. R. Keister Vilees Fork P. P. Shepperd, Vilees Fork Old Coal Co Pulaski Old Dominion Mining Co. Richmond Brookly I Coal Co Staunton First rick Coal Co Staunton First rick Coal Co Wolf Trap Coal Mining X Dev. Co	Alexander Fertilizer & Chemical to Alexandria Standar of Phosphate Alexandria Standar of Phosphate Alexandria Mining Co. American Fert, Co. Gosport Columbia Gypsum & Thosphate Co Harpers Ferry Norfold Mari & Phos-Vorfold Mari & Phos-Polita Phosholis Phosholis Co Petersburg Atbante & Viglinia Fer Gillzer Co Richmond	B. R. Co De Champham's Thomas Eagle Coal Mining Co. K. B. Symington Monarcht Goa Mining Co. Alige Coal Co. Define Co. Townsend Coal Co. Define Co. Townsend Coal Co. Define Co. Townsend Coal Co. Define Co. Define Coal Coal Co. Define Coal Co. Define Coal Coal Co. Define Coal Coal Coal Co. Define Coal Coal Coal Coal Coal Coal Coal Coal
Wolf Trap Coal Mining & Dev. Co Wolf Trap	Virginia-Florida Phos-	Sunset Coal Co
COPPER	Atlantic & Virginia Fer	COPPER
Arminus Copper Mines		Crawford, Harmon & Clayton Scattle Puget Sound Iron Co.,
	SLATE	Puget Sound Tron Co " H. Williams "
COLD AND SILVER	Virginia Slate Co Lynchburg J. B. Wangh. Old Town Washington Const. Co Rural Retreat	COLD AND SILVER
Lathomar Milling Co. Alexandria South Buena Vista Land & Jimp, Co Buena Vista	Washington Const. Co Rural Retreat SOAPSTONE	Centralia M. & Imp. Co Centralia Junction Mining & Melt-
CYPSUM	Albemarle SoapstoneCo-Hardware	The Green River Min-
J. D. Barnes Bradford Holston Salt & Plaster	Albemarle SoapstoneCo Hardware STONE, GRANITE, MARBLE AND DNYX	The Green River Min- ing Co Chebabs Little Maiden Miningt o.Colfax Phopalx Mill & Mining
J. D. Barnes Bradford Holston Salt & Plaster Co. Saltyille	STONE, GRANITE, MARBLE AND DNYX Columbia Bulling Mate	The Green River Min- ing Co Little Maiden Miningt of Offix Phornly Mill & Mining Co. Columbia J. F. Rice Colville
J. D. Barnes Bradford Holston Salt & Plaster Co. Saltyille	STONE, GRANITE, MARBLE AND DNYX Columbia Bulling Mate	The Green River Min- ing Co Chehalis Little Maiden Mining o Coffax Phentx Mil & Mining Co, Golden Colville J. F. Rice Kalama Gr. & S. Mining & Milling Co Kalama
CYPSUM  J. D. Barnes Bradford Holston Salt & Plaster Saltville  IRON Daniel Jordan, Allen's Creek	STONE, GRANITE, MARBLE AND DNYX  Columbia Building Material Co Alexandria Locker & Co. Balcony Falls Kannde Bros. Back-Surr	The Green River Min- ing Co Little Maiden Mining o Colfax Phemix Mil & Mining Co, Colville J. F. Rice Kalama G. & S. Mining & Milling Co Kalama G. & S. Mining & Milling Co Kalama W. H. Birk. Loomis L. D. Burton.
CYPSUM  J. D. Barnes Bradford Holston Salt & Plaster Saltville  IRON Daniel Jordan, Allen's Creek	STONE, GRANITE, MARBLE AND ONYX Columbia Building Material Co. Locker & Co. Locker & Co. Kindow Bras Kinder & Shafer, M. Kipps	The Green River Min- ing Co Little Maiden Mining o Colfax Phoents Mil & Mining Co, Colville J. F. Rice Kalama G. & S. Mining & Milling Co Kalama G. & S. Mining & Milling Co Kalama W. H. Blirk. Loomis L. D. Burton. G. W. Crummey A. J. Dexter
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CYPSUM  J. D. Barnes Bradford Holston Salt & Plaster  Saltville  IRON Impled Jordan Allen's Creek Kepthe L. & Z. Minlag Kepthe L. & Z. Minlag Leopold Minling Co. Bealeton Win A. Bell Blacksburg Houston Minling Co. Buchanan Anderson Cupp Christiansburg Win, C. G. Myers A. F. White Columbia Furnace Ritch Patch Iron Co. Covington Gen. W. Skeen. American Manganese Co. Circuitation C. V. Haden Eymaton V. Haden Eymaton C. Silving Saltving  Ritch Patch Iron Co. Covington Gen. W. Skeen.	Columbia Buliding Material Co.  Tal Co.  Locker & Co.  Badeony Falls Bad	The Green River Mining to Colfax Ing Co Chehals Little Maiden Mining to Colfax Phents Mull & Muning Co. Colville J. F. Rice & Colville J. F. Rice & Kalama G. K. S. Mining Co Kalama G. K. S. Mining Co Kalama W. H. Mirk, Lounis L. D. Burton, G. W. Crummey A. J. Dexter Fred Fuller, Comment Co. Colvin Co
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Troy Development Co. Union Jack Mining Co.	Badger Silver Mining Co. Milwaukee DeubighGold Mining Co. "	W. Grundy
Spokane & Gt. North M.  Co. Troy bevelopment Co. Troy bevelopment Co. Eagle Mining & Milling Earleka Mining Co. Nettle Mining Co. Fidelity Trust Bidg. Trojan Mining Co. Washington & Nevada Mining Co. Washington & Nevada Mining Co. Silvey Mountain Mining Walla Walla J. McKelvey & Co. Washington Bar	O. P. Rounds & Co Belle Centre Eastern Alaska Minling Co	H. Jinkins
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Trojan Mining Co	Hardin Baker Go144 Mining Co Eastern Alaska Mining & Milling Co Sevens Point Security Gold Mining Co. Superior Silver & Rein- ing Co Northern Chief Mining Co Wausau	Wann Co
Mining Co Vancouver	Superior Silver & Refin-	T. Wilkson
Silver Mountain Mining Co	Northern Chief Mining	C. Wonag
J. McKelvey & Co Washington Bar	Co Wausau	J. Young
MICA	IRON	Young & Schackell Milwankee
G. A. Rogers Asotin	Columbia Mining CoAlma	Pollard, Goldschwartz & CO Rule & Goldsworthy Win. Stevens & CO. Geo, B. Treglawn & CO. Win. Rasleck Meekers Grove Donnely & Hyme H. Hannel & CO. T. Walton Warten & Co. J. Hird H. Jinkins J. Jinkens T. Liddell H. Jinkins J. Jinkens J. Jinkens J. Jinkens J. Jinkens J. Jinkens J. Jinkens J. Jinkinson T. Wilkson T. Wilkson J. Young J. Jinkinson J.
STONE, GRANITE, MARBLE AND ONYX	Ontario Mining Co Cadott	Wm. Perry
J. J. Brennon . New Whatcom	Champion Mining Co Darington Davis Bros Dodgeville	T. Choulthwa & Co New Diggings
Denny Clay Co. Seattle Idaho A. M. & Mfg, Co. Spokane	Detroit Iron Co East Superior	Ralsbeck & Co
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J. J. Brennon . New Whateom Denny Clay Co . Seattle Idaho A. M. & Mfg. Co. Spokane Spokane Pressed Brick Co. John T. Long Tenlino A. Robertson & Co	Anvil Mming Co Milwaukee	Mining Co Oshkosh
A. Robertson & Co	Aragon Mining Co	T. Choulthwa & Co
WEST VIRGINIA	Bessemer Consolidated	A. Richter
	Britannia Mining Co **	
COAL BITUMINOUS	Buffalo Mining Co	MINERAL PAINT
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Crown Hill Spirit Coal	J. S. Schantz & Co	STONE, GRANITE, MARBLE AND ONYX
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T. M. Gaston	Star Tunnel & Mining Co. "	Leir Crouch Baraboo
Thomas Pentong Gladesville	Story Bros Superior Mining Co Wilmington Star Mining Uconomowoe	Dev. Co
Ferguson Splint Coal Co. Huntington	Wilmington Star Mining	Anschuty & Co Cedarburg
Wheeling Mining & Wheeling	San Domingo & HayTun-	Wm. Bowen
COLD AND SILVER	Pence Iron Mines Pence	M. Burnetts Duck Creek
	L Sophir Mining Co Rolla	R. H. Emerson Etna
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The Baltimore Mining Co	Northern Chief Iron Co. Wansau	W. Smith Fox Lake F. V. Hagen Green Bay
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Alderson Land & De-	LEAD AND ZINC	A. T. Wickham Iron Mountain
Alderson Land & Developing Co Charleston Brilliant Steel & Fron Co. Wellsburg Forbes, Carmichael & Co. Hall & Knight C. H. Meyers. C. H. Meyers. C. H. Meyers. Principle Furnace & R. M. Co	J. I. Bishon & Bros Beetown	J. H. Horine Ironton
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C. H. Meyers	J. L. Bishop & Bros Beetown F. Bowham & Co J. Gerard & Co	Quarry Co Ketcham
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Hartford City Salt Co — Hartford City German Salt & Coal Co. Mason Hope Salt & Coal Co	F. Bowham & Co J. Gerard & Co. M. Hendricks & Co J. Gerard & Co. Wm. Hutcheroft & Co. L. McCommell & Co. L. McCommell & Co. L. McCommell & Co. L. McGrison & Co. L. Surmer & Co. Warden Bros John Wise & Co John Wise & Co Hugh Owens J. P. Smeker D. G. Williams H. T. Williams H. T. Williams H. Kenieday Lynch, Lewis & Co McGulle Bros Orr & Co Leadmine Min n. Co Jopin Leadmine	American Verde An-
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John Collins	E. W. Williams.	Story Bros. National Home Wm McDonald New Richmond
J. D. Gardner. Kearpevsville	T. T. Williams	Russell Bros
H. W. Flagg Estate Min-	R. Kemieday Highland	Kohlhogan Bros. Sheboygan Fal
J. Gencer Sattes	McGuire Bros Joulin	Peter Beaver & Son Spring Green Superior Jasper Co Superior
Magnoba Marble Com- pany of GeorgiaWheeling	Leadmine Min'ng Co . Leadmine Jas. Fisher & W.eke . Linden	B. McGraut Trempealeau Hadfield & Co. Wankesha
R. S. Beecher Ada W. Duggan Benwood John Collins Kanawha City J. D. Gardner A. G. Morris Kearneysville H. W. Flagg Estate Min- Jung S. Investment Co.Martinsburg J. Geneer Sattes Magnolia Marble Com- pany of Georgia Wheeling Wheeling Lime & Ce- ment Works	Orr & Co. Joplin Leadmine Min'ng Co. Leadmine Jas. Fis'ter & W.e'ke: Samue Hart	C. P. Biggs

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POSTOFFICE NAME
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Inyan Kara Mining Co.
J. D. Russell
Harry Burk...
Buy Evans
Frank Lenne
Maey & Ross
Frank Lenne
Frank Nett
D. D. Wolff... POSTOFFICE Inyan Kara A. F. & L. Manegold Rapher Co W. Stoll Wanwatosa NAME T. A. Hadsell & Co Kılpatrick Bros, & Col-lins. M. Dillon Elk Mountain New Castle Rawtins Rock Springs Miners Delight Sam Fletcher... J. Ludvington. Matt Muir .... Geo. L. Young CYPSUM WYOMING COLD AND SILVER

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Pete McKay "	
Jack McTurk . "	
E. H. Peck "	
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Black Buttes Mining Co.Inyan Kara	

Rocky Mountain Plaster, Stucco & Mfg. Co... Leah

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R. C. Mager MICA

#### Chas, Frederick. Fairbanks

STONE, GRANITE, MARBLE AND ONYX Alma Laramie Piedmont



## LIST OF

# MINING COMPANIES AND OPERATORS

## DOMINION OF CANADA

(SEE ALSO SUPPLEMENTARY LIST)

# BRITISH COLUMBIA

## COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2 000 POUNDS, KIND OF POWER USED. COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Crows Nest Pass Victoria Crows Nest Coal & Mineral Co., Ltd., Victoria, B. C., 45 Fort st. Col. James Barker, prest.; F. B. Pem Berton, Seey.; I. D. Pemberton, treas. Cap. 8tk. \$2,000,000. Crows Nest.

Nanaimo . Vancouver Ry, Departure Bay 552.

East Wellington Coal Co., San Francisco, Cal., U. S. A., 567 and 569 East St. Spiers, prest.; W. Whitney, see, R. D. Chandler, treas, and mgr. Cap. 8tk, \$500,000. East Wellington. Shafts, 50,000 tons, steam. Wm. 8, Chandler, appt.

#### COPPER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND DISTRICT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME OF MINF, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Texada New Westminster (P.O.Nanaimo) Ry.552.

Texada Gold & Silver Mining Co., Nanaimo, B. C., P. O. Box 21, J. W. Stutton, prest.: Alfred Raper, seey.; Thos. Jones, treas.; E. Priest, mgr. Cap. 8tk. \$200,000. Northern Spy, copper. Shaft [developing].

#### GOLD AND SHATER

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND DISTRICT.

NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TORS OF 2010 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Ainsworth Kootenay (W.)
Montreal & Kootenay Mining Co., Ltd., Montreal, Que., 30 St. François Xayler St. E. B. Greenshields, prest.; Robt, T. Hopper, seey. and treas.; Richard Irwin, mgr. and supt. Cap. 8tk, \$20,000. Tam O'Shantler, sibter. Shaff, tannel, Too tonis; hand.

Neosho Mining Co., Seattle, Wash., U. S. A. F. H. Coe, prest.: I. P. Taylor, seey.; L. R. Dawson, treas. M. W. Wallace, mgr. and supt. Cap. stk. 850,000. Neosho, silver. Shaft; free; hand (developing.)

Revelstoke Mining Co., London, Eng., 31 Lombard St., E. C., L. R. C. Boyle, prest.; W. A. Bailey, seey and freax, J. Campbell, ang., and supt. Cap. sik, 260,000. United, silver and lead. Shafts, 600 tons, refractory, steam. No. 1, silver and lead. Tunnels, 200 tons; free; hand.

Cariboo Ry. Asheroft 96.

Black Jack Quartz Mining Co., Ltd. F. A. Martin, prest, and mgr.; Wm. H. Phelps, seey, and treas. Cap. stk. \$120,000. Black Jack, gold. Shaft and tunnel, refractory; steam and water. James Innes. Forest Rose and St. George, gold. Placer; hydraulic.

Slough Creek Mining Co., Tacoma, Wash., U. S. A., Hotel Fife, W. H. Fife, prest.; E. M. Onmette, treas., C. Ramos, nigr. Cap. stk. \$500,000. Slough Creek, gold. Shaft and Immel (developing). Victoria Amalgamated Hydraulic Mining Co. Pinkerton's, gold. Placer, deep,

Waverly Hydraulie Mining Co. J. B. Mason, prest.; J. Stone, seey, and treas.; J. Pomeroy, mgr. Waverly, gold. Placer: hydraulie. Clinton Ry. Asheroft 96

Cariboo Bonanza Mining Co. E. Bell, secy. Bonanza, gold. Shafts and tunnel; free developing).

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	GOLD AND SILVER -(CONTINUED)
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND DISTRICT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, XAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUFFRINTENDENT.
Comox Vancouver Ry. Nanaimo 253, 552.	E. Priest. Venus, gold. Shaft; free; water (developing).
Fairview Vale Ry.& P.O. Sicamons 96.	Wide West Mining Co. H. B. Dexter, prest.; F. R. Kline, secy.; M. C. Sharpneck, treas.; H. W. Bowen, mgr. and supt. Wide West, gold and silver. Tunnel and open pit; free; steam; 6 stamps.
GoldenKootenay (East) Ry. 96.	H.C. Hannsut & Co., Toronto, Ont., King st. W. Vermont Discovery, silver and lead. Tunnel (developing).  Donald G. Forbes, supt.
**	Thunder Hill Mining Co., Ltd., Victoria, B. C., Jewell Block, Douglas St. J. Nicholles, prest.; W. H. Balnbridge, seey, and treas, James Brady, ngr, and supt. Cap. stk. \$500,000. Thunder Hill, gold, silver and lead. Open pit, 15,000 tons; steam.
Hixon Creek Cariboo (P. O. Quesnelle) Ry. Ashcroft 96 (210 m.).	Blue Lead Hydraulie Co. G. B. Clarke, seey, and treas.; James Reid, mgr. Cap. stk. \$100,000. Blue Lead, gold. Placer; hydraulic (developing). Maurice Davis, supt.
"	Quesnelle Quartz Mining Co., Ltd. James Reid, prest.; W. A. Johnston, secy. and treas. Cap. stk. \$300,000. Gold and silver. Shaft; free and refractory; steam; 5 stamps.
Hope Vale Ry, 96.	Shuniah Mining Co. Shuniah, gold and silver. Slope; refractory; water (developing).
	Lanark Consolidated Mining & Smelting Co., Victoria, B. C., 48 Langley 81. Thos. Earle, prest.; Geo. A. Sargison, seey.; N. P. Snowden, treas. Cap. 8tk. \$290,000. Lanark and others, silver and lead. Shaft and timnel; steam; hand (developing).
Keithley Creek Cariboo Ry, Ashcroft 96.	Hayward Mining Co. G. A. Veitz, secy, and treas.; M. Kerr, mgr, and supt. Cap. stk. \$50,000. Hayward, gold. Placer; hydraulic.
Lillooet	John Irving & Co., Victoria, B. C. Cap, \$20,000. Victor, gold. Placer; hydraulic. J. N. Jensen, supt.
	Mina Placer Co., J. S. Bell, secy., treas, and supt. W. Duquid, mgr. Mina Placer, gold. Open pit; water (developing).
	Peters & Ward. Gold. Open pit, placer.
	Vancouver Enterprise Mining Co., Ltd., Vancouver, B. C. Capt. Malcohn McLeod, prest.; R. A. Anderson, secy, and treas. Cap. stk. \$25,000. Vancouver Enterprise, gold. Placer, tunnel and shaft; hydraulic,
Nanaimo Vancouver Ry, 552.	Minerva Mining & Milling Co., Victoria Crescent. B. Raper, prest.; A. Raper, seey, and treas.; E. Priest, mgr. and supt. Eureka, Twin Brothers and Minerva. Open pits and shaft; free and refractory; hand (developing).
** .	Texada Gold and Silver Mining Co., Victoria Crescent. J. W. Stuton, prest.; Alfred Raper, seey.; T. D. Jones, treas.; E. Priest, mgr. and supt. Cleopatra, gold and silver. Shaft; refractory; hand.
Osoyoos Vale Ry. Kamloops 96.	International Mining & Milling Co. W. C. Kincaid, prest.; J. C. Kincaid, secy.; B. M. Spinning, treas.; R. A. Brown, mgr. and supt. Cap. stk. \$500,000. Vulcanic Mountain, silver and lead. Tunnel; hand.
	Spokane & Great Northern Mining Co., Spokane, Wash., U.S. A., 318 and 319 The Rookery. H. C. Walters, prest.; H. M. Hoyt, seey.; A. B. Reefer, treas.; C. F. Lee, mgr. Cap. sit., \$2,000,000. Gold and silver. Timnel and shaft; free and refractory; steam; stamps (developing).
Penticton	Okanagon Mining Co., Spallumcheen, B. C. Capt, Shorts, mgr. Cap. stk. \$2,000. Okanagon Mineral Clann, gold and silver. Shaft, tunnel; refractory; hand (developing).
Quesnelle Forks, Cariboo Ry, Asheroff 96.	South Fork Hydraulic Mining Co. A. C. Knight, seey.; J. K. Barker, mgr. South Fork, gold. Placer; hydraulic (developing).
	Victoria Hydraulic Mining Co., Ltd., Victoria, B. C., 30 Broad st. Wm. Wilson, prest.; W. D. McGregor, seey, and treas.; John Hepburn, mgr. and supt. Cap. stk. \$100,000. Coquette, gold. Placer; water.
Revelstoke,Kootenay(W.) Ry, 96,	Thomas Downs. Sardeaux Chief, gold. Tunnel; refractory. C. Holten, supt.
	Kootenay Smelting & Trading Syndicate, Ltd., London, Eng., 31 Lombard st. L. R. C. Boyle, prest.; Wm. Bailey, scey.; John Campbell, mgr. and supt. Cap. stk. §200,000. Silver King, Terrible, Monarch, Emma, Blue Bell and Alice, gold, silver, lead and copper. Tunnels; refractory; steam and hand (developing).
	Done & Maltoneld Coulor Alver and lead Over nit free band

Ross & McDonald. Gopher, silver and lead. Open pit; free; hand. P. M. Walker, Great Northern, silver, lead and copper. Tunnel; refractory (developing). C. Holten,

Stapley . . . . Cariboo (P. O. Van Winkle) Albion Mining Co. John Pebbles, seey.; Wm. Wormald, mgr. Albion, gold. Placer; water. Ry.Asheroft 96(260 m.).

Chisholm Creek Co. A. Johnstone, seey. Chisholm Creek, gold. Shaft; water.

Clark Mining Co. David Allen, prest.; Archibald Johnstone, secy.; John Cameron, mgr. Gold. Shaft; hand (developing). Danbar Flat Hydranlic Co. K. L. Lee, mgr. Danbar Flat, gold. Water.

W. W. Houseman, British Empire, gold. Shaft; water (developing).

Laura Mineral Co. Archibald Johnstone, secy. Laura, gold, silver and lead. Shaft; free; hand (developing). E. Perkins, Perkins, gold. Tunnel and shaft; refractory and free; hand, arrastre. South Wales Lease Co. South Wales, gold. Slope and shaft, deep; water and hand.

Sunny Point Mining Co., John James, prest.; Louis A. Beedy, secy.; A. Johnstone, treas.; G. P. Munroe, mgr., Sunny Point, gold. Shaft, deep, placer; hand. Willow Mining Co., Orrsville, B. C., 73 Columbia St. – Josiah Rowe, prest.; George Monroe, seey, and treas.; Frank Hoar, mgr. – Gold. – Tunnel; hand.

Texada New Westminister C, R, Millar. Cap. \$10,000. Nigger Baby, gold. Shaft; refractory and free; water and hand (developing). (P.O. Nanaimo) Ry. 552.

, NAMES OF OFFICERS, CAPITAL STOCK,

## GOLD AND SILVER (CONTINUED)

RAILWA	ATION OF MINE, ES, WATER ROUTES SHIPPING POINT. AND DISTRICT.	ME OF M	NY OR INDIVIDUAL. I INE, KIND OF ORE, POWER USED, STAN	KIND OF MINE	ANNUAL OUTPUT

T IN TONS OF 2,000 POUNDS, KIND MINE SUPERINTENDENT. Texada NewWestminister | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, secy.; Thos. D. Jones, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton, prest.; A. Raper, (Continued.) | Texada Gold & Silver Mining Co., P. O. Box 21, J. W. Stirton,

Trail Creek .. W. Kootenay Ry. Sproat 96. Le Roi Mining & Smelting Co., Spokane, Wash., U. S. A. Geo, M. Forster, prest.; I. N. Peyton, seey.; J. W. Blikley, treas. Cap. stk. \$2,500,000. Le Roi, gold, copper. Shaft, bunnel, deep. Vale Main, Hendricks & Wood. Cap. stk. \$5,000. Hill Discovery, gold. Placer, shafts; water. C.C. Main, supt 

Yale Queen Mining Co., Front st. Benj. Douglas, prest.; Wm. Teague, seey., treas, and mgr. Cap. stk. \$20,000. Queen, gold and silver. Tunnels, 40 tons; refractory; water. Thomas Rablin, supt. Lewis Stenger, New Whateom, Wash., U. S. A., 2022 Thirteenth st. Old Sol and Last Chance, gold and platinum. Tunnels (developing).

IRON

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND DISTRICT.

AND DISTRICT.

Vale Ry. 96.

Town

NAME OF COMPANY OF INDIVIDUAL LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Obe, Kind of Mine, Annual Output in Toss of 2,000 Pounds, Kind of POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Kamloops Yale Glen Iron Mining Co., Lid. J. W. Mackay, prest.; J. Ogden Grahame, seey, and treas.; F. J. Fulton, mgr. Cap. 8tk, \$50,000. Glen Iron, bessemer. Slope, 4,500 tons. Rv. 96.

## LEAD AND ZINC

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT.

Ainsworth W. Kootenay D. W. Clark. Lady of the Lake, lead. Tunnel, shaft, hand.

Hiicillewaet Boyd & Bain Co. Dunnegan Mine, lead and conner. Shaft, tunnel, slope; free; hand (developing). Kootenay

#### PLATINUM

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT

AND D.STRICT.

Granite Creek

Rv. 96

Town

Ayale Tulameen Improvement & Hydraulic Co., Idd., New Westminster, B. C., 9 85xth st. Jos. C. Armstrong, prest, Walter J. Walter, seey, and treas; Win, G. Thompson, mgr. Cap. stk. 850,000. Tulameen, platinum. Placer; hydraulic (developing). Albert Wells, supt.

## QUICKSILVER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. AND DISTRICT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE. ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.

Alberni... Ry, 552.

... Vancouver Seachart Quicksilver Mining Co., Victoria, B. C., Vates st. P. Dunlevy, prest.; F. J. Claxton, secy.; A. F. Flumerfelt, treas.; Wm. Wills, mgr. and supt. Cap. stk. \$75,000. Seachart No. 1. Shaft and tunnels;

## STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE
OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILINS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

AND DISTRICT.

Nanaimo . . . . Vancouver Minerva Marble Co., Victoria Crescent. B. Raper, prest.; A. Raper, seey, and treas.; E. Priest, mgr. and supt. Minerva, marble. Open pit; hand.

Raper, Priest & Co., 28 Victoria Crescent. E. Priest, mgr. Cap. \$2,000. Malaspina, red granite. Open pit: hand (developing). Nelson Island Granite Co., Ltd., Victoria, B. C., J. C. Prevost, prest, and treas.; E. J. Thain, seey., mgr. and supt. Cap. stk. \$30,000. Nelson Island, gray granite. Open pit; steam (developing).

Nelson Island New Westminster Ry, & P.O.Victoria 552. Saanich, NewWestminster (P, O, N. Saanich) Ry.

Saanich Lime Co., Ltd., Victoria, B. C., 127 Vates st. Peter C. Fernie, prest, and supt.; J. Wriglesworth, seey., treas, and mgr. Cap. stk. \$50,000. Saanich and Millstream, limestone. Open pit, 2,000 tons; horse and hand; klin 2,230 tons.

Ry. 96, 552.

Vancouver N. Westminster Vancouver Stone Quarrying, Mining & Transportation Co., Cordova st. Johann Wulffsohn, prest.; R. B. Johnson, seey, and treas.; J. W. Vaughan, mgr. English Bay, sandstone. Open pit; hand.

SEE ALSO SUPPLEMENTARY LIST

# NEW BRUNSWICK

MINERAL PAINT

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Town

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS. KIND OF POWER USED, PAINT MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Newcastle, Northumberl'd John Ferguson. Oxide of iron. Ry. 325.

## STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Sripping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCE, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2.000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILNS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Newcastle, Northumberl'd. C. E. Fish. Cap. \$5,000. French Fort, olive sandstone. 4,000 tons; steam. William Sutherland, supt. Ry. 325.

SEE ALSO SUPPLEMENTARY LIST

# NORTH-WEST TERRITORY

## COAL ANTHRACITE

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND DISTRICT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2000 POPADS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Town

The H. W. McNeill Co., Ltd. H. W. McNeill, prest.; E. L. Little, secy. Cap. stk. \$50,000. Slopes, 50,000 tons; steam; breaker. Phillip Gill, supt.

### COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICE 68, CAPITAL STOCK, NAME AND KIND OF MINE. ANNUAL OUTPUT IN TORS OF 2000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.

Calgary

Lethbridge

Ry. Lethbridge 10

Bow River Mines Alberta Anthracite & Bituminous Coal Co., Toronto, Out., 45 Toronto st. B. E. Chafley, prest., F. A. Fleming, (No P. O.) Ry. 10. seey.; S. H. Fleming, treas., Wm. H. Merritt, mgr. Cap. stk. \$250,000. Bow River (developing).

Alberta Golden Mining & Smelting Co. of Canada, Ltd. Gold. Alberta Canada Northwest Coal & Lumber Syndicate, London, Eng., 6 Clements Ianc, E. C. George B. Powell, prest, J. W. Knowles, seey.; (Thas. Dickinson, mgr, and supt. Cap. stk. \$170,000, Cochrane. Slope and tumed, 35,000 fors; steam.

Alberta Railway & Coal Co. Wm. Lethfridge, prest.; H. Melleth, treas., E. T. Galt, mgr. Shafts and tunnels, 150,000 tons, steam. Wm. Stafford, supt.

Cowdery Bros., Fort McLeod, Alberta. Shawn. Open pit, 1,500 tons, hand. H. D. Freemantle, supt. Andrew Christic. Cap. \$2,000, Christic's Mine. Tunnel, 500 tons, hand.

Francis Willock (local). Stand-By. Tunnel, 200 tons; hand.

#### GOLD AND SHATER

LOCATION OF MINE, RAILWAYS, WATER ROUTES

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ITC., AND NAME OF MINE SUPERINTENDENT.

Clover Bar

ver Bar — Alberta Alexander Robertson, Gold, Placer; free; water and hand, Ry, Edmonton 96.

Alberta Donald Ross, Cap. \$2,500. Ross, gold. Tunnel, 700 tons, hand, +

Ft. Saskatchewan, Alberta George Bourk. Gold. Placer; hand, horse and water. Ry. Edmonton 96.

## STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT. YwoT AND DISTRICT.

Name of Company or Individual, Location of Phincipal Office, Names of Officers, Capital Stock, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTFUL IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR WARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Calgary Rv. 96. Alberta John G. McCallum, Stephen av. Cap. \$15,000. Elbow Quarry, freestone. Open pit, 2,700 tons, steam,

SEE ALSO SUPPLEMENTARY LIST

# NOVA SCOTIA

## COAL-BITUMINOUS

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, XAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, COAL BREAKERS, WASHERS, COKE OVENS, AND NAME OF MINE SUPERINTENDENT.
Caledonia Mines C.Breton Ry, Little Glace Bay 31,	Caledonia Coal & Railway Co. W. Emery, prest.; Eustace Hubbard, secy.; Daera MacKeen, treas., mgr. and supt. Cap. stk. \$600,000. Caledonia. Shaft, 168,000 tons; steam and compressed air.
Little Glace Bay Cape Breton Ry. 31.	Glace Bay Mining Co., Ltd., Halifax, N. S., Lower Water st. E. P. Archbold, prest,; J. R. Lithgow, seey, treas, and mgr. Cap. stk. \$640,000. Little Glace Bay. Shaft, 120,000 tons; hand. C. H. Rigby, supt.
Mabou Harbor Inverness Ry, 31, 707.	Mabon Coal & Gypsum Co., Ltd. C. L. Snow, prest., mgr. and supt.; Lewis McKeen, secy. and treas. Cap. stk. \$50,000. Mabou. Slope, 3,600 tons; water.
Spring Hill Jn. Cumberl'd Ry. 31, 325.	Cumberland Railway & Coal Co., Montreal, Que., Imperial Bldg., Place d'Armes. R. Cowans, vprest.; H. R. Drummond, secy. and treas.; I. R. Cowans, mgr. Spring Hill. Four slopes, 512,300 tons; steam.
Stellarton Picton Ry, Picton 325,	Acadia Coal Co., Ltd. J. W. Clendenin, prest, and treas.; Philip Harris, secy.; H. S. Poole, ngr. Cap. stk. \$4,000,000. Slope and open pit, 100,000 tons; steam; 75 coke ovens, 26,000 tons. J. Maxwell, supt.
SydneyCape Breton Ry, 325.	Gardener Coal Co. John E. Burchell, prest.; J. Sydney Burchell, seey.; James T. Burchell, treas., mgr. and supt. Cap. stk, \$200,000. Gardener. Shaft, 40,000 tons; steam and electricity.
**	Sydney & Louisburg Coal & Railway Co., Ltd. C. S. Keefe, seey, and treas.; D. J. Kennedy, mgr. and supt. Cap. stk. \$1,500,000. Reserve. Slope and shaft, 170,000 tons; compressed air and steam.

Thorburn Ry. 325.

Trnro..... Colch Ry. 325. (6 miles). Colchester

Westville. Pictou

Pietou Acada Coal Co., Ltd., Stellarton, N. S. J. W. Clendenin, prest, and treas.; Philip Harris, seey.; H. S. Poole, ngr. Cap. stk. \$4,000,000. Slope and open pit, 100,000 tons; steam. J. Dunbar, supt. Coal Mining Co., P. O. Box 523. William Hallett, prest.; Georgillm, treas. Cap. stk. \$49,000. Truro. Slope; steam (developing.) st.; George Ross, seey, and mgr.; T. G. Mc-

Acadia Coal Co., Ltd., Stellarton, N. S. I. W. Clendenin, prest, and treas.; Philip Harris, seey.; H. S. Poole, mgr. Cap. stk. \$4,000,000. Slope and open pit, 100,000 tons; steam. I. W. Sutherland, supt. Intercolonial Coal Mining Co., Ltd., Montreal, Que., 199 Commissioners st., James P. Cleghorn, prest; William J. Nelson, seey, and treas; Charles Fergie, ngr. and supt. Cap. stk. \$1,000,000. Drummond. Slopes, 190,000 tons; steam; 20 code ovens, 6,000 tons.

## COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Sydney. Cape Breton Ry. North-West Arm Sydney Harbor 31. Eastern Development Co., Ltd., Boston, Mass., 53 State st. Isaac P. Gragg, prest, and mgr.; Thomas Sydney Harbor 31. Harbor 31. Browned Granger, supt.

## GOLD AND SILVER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

Country Harbor. Guysborough (P. O. Cross Roads, Country Harbor) Ry, Halifax 31.

Fifteen-Mile Stream Halifax Ry. Hopewell 325

(43 miles).

Mooseland . Ry. Spry Bay 31. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Country Harbor Gold Mining Co., Ltd., St. Johns, N. B., P. O. Boy 132. Robert Blair, prest.: J. Gordon Forbes, seey, and treas; George McNaughton, mgr. and supt. Cap. stk. \$40,000. McNaughton Belt, gold. Shaft and tunnel, 43,500 tons; free; 29-stamps.

New Egerton Mining Co., New Glasgow, N. S. James D. McGregor, prest, seey, and treas; James A. Fraser, mgr. and supt. Cap. stk, \$40,000. New Egerton, gold. Shafts and funnels, 4,500 tons; free steam; 15 stamps.

Goldenville Gnysborough C. B. Beresford, Sherbrooke, N. S. Hee, Strycke, Domingues, gold. 400 tons; free; horse; 15 stamps. Rv. Antigonishe 325.

Malcolm Cameron. Wellington, Palmerston and Grape Vine, gold. Shafts and tunnels; free; steam and

Isaac's Harbor Guysboro'h Palgrave Gold Mining Co., Portland, Me., Exchange st. H. K. Fisher, prest, and mgr.; W. H. Harrington, Ry. 3t. seey.; T. R. Gue, treas.; Cap. stk. \$100,000. Palgrave, gold. Shafts and tunnels, 2,400 tons; free; steam; 10 stamps.

Kemptyille . . . . Yarmouth Kempt Gold Mining Co., Ltd., Varmouth, N. S. Jacob Bingay, prest.; A. W. Eakins, seey, and treas.; Ry. Yarmouth 31. W. H. Nash, mgr. and supt. Cap. stk. \$30,000. Kempt, gold. Shaft, 500 tons; free; steam; 10 stamps.

MalagaGoldManesQueen's Boston Gold Mining Co. Geo. A. Kimball, prest.; B. F. Whittemore, seey, and treas.; F. K. Ballon, nigr. Ry. Bridgewater 552 (26 and supt. Cap. 8tk, \$300,000. Boston, gold. Tunnel, slope and deep, 3,000 tons; free; sleam; 10 stamps.

Halifay Mooseland Gold Mining Co., Ltd., Halifax, N. S., 52 Bedford row, W. J. Stewart, prest.; W. C. Bishop, secy.; Thos. Brown, treas; Henry G. Stemshorn, mgr, and supt. Cap. six, \$100,000. Mooseland, gold. Free; steam; 24 stamps (developing).

#### GOLD AND SILVER-(CONTINUED)

LOCATION OF MINE,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT.

Town COUNTY

Moose River Gold Mines Halifax Ry. Shubenacadie 325 (30 miles).

Mount Uniacke... Hants

Oldham Halifax Ry. Entield 325 (3 m.)

Rawdon Hants Ry. Mt. Uniacke 823. Salmon River . Halifax

Rv. 32. Scal Harbor, Guysborough Ry, and P. O. Isaac's Harbor 31.

Unper Musanodobolt Ry. Shubenacadie 3: (35 miles),

Waverly Halifax Ry, Windsor Junction 325 (2 miles).

Whiteburn Mines, Queen's Ry. New Germany 532 (30 miles).

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Damos Tonquoy, Cap. \$40,000. Tonquoy, gold. 19 shafts, slopes, 5,000 tons, free; water and steam; 15 stanuos.

Withrow Gold Mining Co. John J. Withrow, prest, and supt., T. P. Patnam, seey., treas, and mgr. Cap., stk. \$7,000. Withrow, gold. Slope, 500 tons; free; steam; 10 stamps.

Napier Mining Co. Wm. J. Fraser, prest.; John E. Hardman, seey., treas, and mgr. Cap. stk. 8120,000, Napier, gold. Free and refractory: steam. Wm. Mackintosh supt.

Oldham Gold Co., John E. Hardman, mgr. Cap. \$20,000. Baker, gold. 7,000 tons: tree and refractory; steam and water; 10 stamps. Wm. Mackintosh, supt.

Pleasant Hill Gold Mining Co. Pleasant Hill, gold. Free. J. E. Vandergrift, supt.

Rhode Island Mining Co., Providence, R. L. 48 Westminster st., Room 47. C. R. Day, treas.; Norman Logan, mgr. and supt. Donaldson, gold. Shaft; horse (developing).

Standard Gold Co. J. E. Hardman, nigr. Cap. stk. \$50,000. Gold. Steam. Wm. MacKintosh, supt.

Central Rawdon Mining Co., Iatd., Windsor, N. S., Joshua H. Smith, prest.; J. C. Geldut, seey.; Clarence H. Dimock, treas.; T. B. Blofs, mgr. Cap. stk. \$120,000. Combination, gold. 45 stamps.

Dufferin Gold Mining Co., Ltd., Truro, N. S., A. K. Archibald, prest, mgr. and supt.; S. R. Tupper, seey, and treas. Cap. ski, \$500,000. Dufferin, gold. Shafts, tunnels and slopes, 42,000 tons; free; water; 20

McNaughton Gold Mining Co., St. Johns, N. B., P. O. Box 132. Alfred C. Blair, prest.; J. Gordon Forbes, seey, and trens; Robert McNaughton, mgr. Cap. 8tk, \$20,000. Scal Harbor, gold. Shaft and tunnel, 40,000 lons; free; steam, 15 stamps.

McNaughton Gold Mining Co., Ltd., St. Johns, N. B., P. O. Boy 132. A. Chelton Blair, prest.; J. Gordon Forbes, seey, and treas.; Robert McNaughton, mgr. and supt. Cap. stk. 865,000. McNaughton, gold. Shaft and thinnel, 9000 (ons.) free; steam; 15 stamps.

Dixon & Co., Halifax, N. S. Herbert Dixon, mgr. and supt. Dixon, gold. Shaft, L200 tons: free; steam;

Lake View Mining Co., Ltd., Newark, N. J., 489 Market St., T. B. Allen, prest., William L. Allen, seey-and treas; A. A. Hayang, and supt. (ap. 8tk, \$500,000. Lake View, gold.) Deep, 19,000 tons, free; steum, 30 stamping.

West Waverley Gold Co., Ltd., James C. Ayer, prest., E. L. Newcombe, seey., John E. Hardman, treas and mgr., Cap. stk. \$60,000. West Waverley, gold., 15,000 tons, free, steam; 10 stamps. Richard L. Sherman, supt.

B. C. Wilson, Halitax, N. S., P. O. Box 520. Cap. 825,000. East Waverly, gold. Tunnel and Incline, 10,000 tons; free; steam and water. James Warren, supt.

John C. Coleman, G. J. Partington, mgr. and supt. Whiteburn, gold. Shaft, free; steam; to stamps (de-

Wine Harbor Gnysboro'h H. T. Harding, Traro, N. S. E. Conory, mgr. and supt. Cap. \$10,000. Napier and Eldorado, gold. Shaft Ry, Antigonishe 325. and tunnel, 3,600 tons, free, steam; 27 stamps.

### GYPSUM

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY

Mabou Harbor, Inverness Mabou Coal & Gypsmu Co., Ltd. C. L. Snow, prest, mgr, and supt.; 4.ewis McKeen, seey, and treas, Ry, 31, 707. Cap. stk. \$50,000. Converse. Open pit, 5,000 tons; steam; mill, 4,000 tons.

Port Bevis

(P. O. Baddeck) Ry.31.

Victoria Gypsum Mining & Manufacturing Co., Ltd., Hon., Duncan C. Fritser, prest.; H. Percy Blanchard, seey, and treas.; W. F. McCurdy, mgr, and supt. Cap. 8tk, 8100,000. Victoria. Open pit, 15,000 tons; steam.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED,

MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Hants Wentworth Gypsum Co., Ltd. J. B. King, prest.; E. Norman Dimock, seey.; Clarence H. Dimock, treas, and mgr. Cap. stk. \$200,000. Wentworth. Open pit, 25,000 tons, steam. John Phillips sr., supt. Windsor

#### IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 FOUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
Acadia Mines Colchester Ry, Londonderry Sta. 325.	
Bridgeville Picton Ry, 325,	Picton Charcoal Iron Co., Ltd., New Glasgow, N. S. W. B. Moore, prest.; D. R. Grant, seey, and treas.; J. A. Sjostedt, mgr. and supt. Cap. stk. \$200,000. Grant, brown hematite. Tunnel, 10,000 tons; steam

LOCATION OF MINE.

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.

LOCATION OF MINE

OR QUARRY,
RAILWAYS, WATER ROUTES

Rv. 31.

Springville Ry, 325.

Torbrooke.... Annapolis

Picton Picton Charcoal Iron Co., Idd., New Glasgow, N. S. W. B. Moore, prest, D. R. Grant, seey, and treas; E. A. Sloxtedt, mgr, and shipt. Cap. 8tk. \$300,000. Grant, brown hematite. Tinnel, 10,000 tons; steam and hand; furnace, 7,000 tons.

Picton N. Start River, D. John F. Stairs, prest.; Harvey Graham, seey.; Thomas Green, New Glasgow Iron, Coal & Railway Co., John F. Stairs, prest.; Harvey Graham, seey.; Thomas Green, treas. Cap. 8tk. \$1,000,000. East River, brown and red hematite. Stope, 2 shafts, open pit; steam; furnace, 30,000 tons (developing).

Annapolis Torbrook Iron Co., Ltd. Hon. Senator MacFarland, prest.; Geo. De Blois, secy. and treas.; R. G. E. Leckle, mgr. Cap. stk. \$100,000. Torbrook, red hematite. 4 shafts, 36,000 tons; steam. K. Solomon, suit.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,

NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF

#### MANGANESE

LOCATION OF RAILWAYS, WATE AND SHIPPING	R ROUTES	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Ore, Kinn of Mine, Annold Output in Tons of 2,00 Pouveds, Kind of Power Used, Blast Fubances, Erc. and Name of Mine Equenityendent.
Town AND	COUNTY.	
Tenecape Ry, 31.	. Hants	Shaw & Churchill Co., Walton, N. S. Tenecape. Shaft, tunnel and open pit, 250 tons; steam. D. W. Me-Vicar, supt.

### LEAD AND ZINC

	of Power Used, Smelters, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY	
Halfway Brook,Colchester Ry, Brookfield 325,	Clarke & Johnson, Halifax, N. S. Joe Howe, lead. Shaft: steam.
Smithfield Guysboro Ry, Halfway Brook 325 (13 miles),	Clark & Fraser, Halifax, N. S., 161 Hollis st. Smithfield Silver Lode, lead. 3 shafts: refractory; steam.

## STONE, MARBLE, GRANITE AND ONYX

AND SHIFFING POINT.	2,000 FOUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEELINS AND
TOWN AND COUNTY.	Capacity, Etc., and Name of Mine Superintendent.
Brookfield Colchester Ry, 325.	Londonderry Iron Co., Montreal, Que. A. T. Patterson, prest.; Jas. Phymister, seey.; F. C. Badden, 4reas.; R. G. Leckie, mgr. Cap. 8tk. \$1,000,000. Lanark, limestone. 11,000 tons; steam. F. Park, supt.
Lower Cove Cumberland Ry, 340.	Atlantic Stone Co., Boston, Mass., 474 Atlantic av. Amos Scaman, prest.; E. Q. Rowan, seey, and treas.; R. S. Hibbard, mgr. and supt. Cap. stk. \$30,000. Lower Cove, sandstone. Open pit, 3,000 tons; steam; mill.
Marble Mountain	Bras d'Or Lime Co., Ltd., Halifax, N. S., 161 Hollis st. C. F. Fraser, prest.: A. Milne Fraser, secy. and

ountain Inverness

Bras d'Or Lime Co., Ltd., Halifax, N. S., 161 Hollis St. C. F. Fraser, prest.: A. Milne Fraser, seey, and treas.; D. MacLachlan, mgr. and supt. Cap. 8tk. 50,000. Limestone. Open pits, 10,000 tons: steam; 3 kilns, 3,000 tons.

Bras d'Or Marble Co., Ltd., Halifax, N. S., 161 Hollis st. C. F. Fraser, prest.; A. Milne Fraser, seey, and treas.; D. MacLachlan, mgr. and supt. Cap. stk. \$160,000. Bras d'Or, marble. Open pit; steam and gravity; mill (developing).
Our Changon From & Compoul Co. Now Glyson, N. S. D. V. Grant Sooy, F. A. Sinstell, mer. Can.

Picton New Glasgow Iron & Charcoal Co., New Glasgow, N. S. D. R. Grant, seey.; E. A. Sjostedt, mgr. Cap. stk. \$100,000. McLean's, limestone. Open pit, 4,500 tons; hand; kiln, 500 tons. S. H. McLean, supt.

SEE ALSO SUPPLEMENTARY LIST

## ONTARIO

#### ASBESTOS

LOCATION OF MINE. BAILWAYS, WATER ROUGES. AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Ottawa

#### COPPER

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, FUENACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Town

Carleton Place. Lanark Wylie & Weekes, Burnside, Nev. Antimony, copper, lead. Open pils; hand.

Ry. 96.

Algonia Canadian Copper Co., Cleveland, Ohio, 103 103 Superior St. Stevenson Burke, prest.; H. P. McIntosh, seey, and treas, cap. stk. 8250,000. Copper Call, Evans, copper, nickel. Shaft, 47,000 tons; steam; furnace 30,000 tons. J. D. Evans, super.

## FIRE CLAY

LOCATION OF MINE OR BANK, RAILWAYS, WATER ROCTES, AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE OR BANK, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF SUPERINTENDENT.

Milton

"Halton Malton Pressed Brick & Sewer Pipe Co., D. Robertson, prest., J. S. McCannell, seey., treas, and mgr. Cap. 8tk. \$50,000. Open pits, 8,000 tons; steam.

#### GOLD AND SHATER

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCH AL OFFICE, NAMES OF OFFICE S, CAPITAL STOLA, NAME OF MIRE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 200 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE, SUPERINTENDENT,

Beaver Mine Alge Ry, 595a (10 miles).

Algonia Hidden Treasure Silver Mining Co., Manucapolis, Minin, 267 Masonie Temple, F. W. Nevens, prest., W. R. Steadman, seey.; L. Kunbel, treas.; veil Campbell, mgr., and supt. Cap. 8tk, 8100,000. Hidden Treasure, Silver. Shaft, tunnel, refractory developing.

Relmont Twp., Peterboro, F. R. Lengham, Marmora, Ont. Cap. 850,000. Relmont, gold. Shaft, 15,000 tons; free; steam, A. W. 119. Capt, Duncan McEachen, Duluth, Minn., 1 E. Fifth st. McEachen, gold, silver and lead. Shaft, tunnel; free; horse.

Black Bay Algoma P. O. Port Arthur) Ry. Pearl River 96. Deloro . . . . Hastings Ry, Marmora 119.

Dorion Twp Algoma (P. O. Port Arthur Ry, Pearl River 96,

æns, Newberry & Rothwell, iessees, Detroit, Mich., 116 Griswold st. Canada Consolidated, gold. Shaft; refractory, steam and water, Ogema Mining & Smelling Co., Camden, N. J., 323 and 325 Federal St. Channing Allen, prest; J. H. Six smith sery, and treas, John C. Smith, mgr, and supt. Cap. 8tk, 8150,000, Ogema, gold, 8llver and lead shatts, drifts; refractory; steam ofeveloping).

Fairbank Twp Algoma (P.O. Chelmsford) Ry. Addington Elinton

William Wilson, Toronto, Ont., cor. Bay and Adelaide sts. Cap. \$150,000. Clark, gold. Shaft, 30,000 tons. free; steam. John Dufont, supt.

Ry. Kaladar Station 96. Gillies .Algoing P.O. Port Arthur) Ry

Kaladar Mining Co., Napanee, Ont. Wm. Miller, prest.; F. Burrows, seey.; Dominion Bank, treas. Cap., s4k, \$120,000. Kaladar, gold. Free edeveloping.

Badger Silver Mining Co., Milwankee, Wis., N. E. cor. East Water and Mason sts., John M. Stowell, prest.; Walter Read, seey.; C. A. Rend., fres. H. Shear, mgr. and supt. Cap. 8tk, 8290,000. Badger and Forengine, silver. Shatt and slope, 6,000 tons; free and refractory; steeming to stamp.

Lybster . . Algoma P. O. and Ry. Silver Mountain 595a.

Beaver Mining & Milling Co., Detroit, Mich. Silver, Shaft; free, steam; 40 stamps, Capt. Thos.

Crown Point Mining Co., Duluth, Minn. H. R. Tinkham, prest.; Emory Tinkham, seey., C. E. Shanon, treas; A. D. Cummings, neg. Cap. 8th, 850,000. Crown Point, silver. Tunnel, 1,500 tons; free, hand. W. N. Montgonery, supt.

Minneapolis Mineral Lands Co., Minneapolis, Minn., 811 Guaranty Loan Bldg. J. S. Lane, prest.; Eugene N. Best, seey.; C. E. Brewster, trens., W. D. Muddaugh, mgr. and supt. Cap. 848, 850,000. Paissade, silver. Shaff and funded, 6,000 tons; free; steam. A. L. Bain. Rising Sun, gold, silver and lead. Shaft; free, hand.

McTayish Algoni P. O. Port Arthur Ry. Onimet 96.

LOCATION OF MINE,

### GOLD AND SHLVER-(CONTINUED)

NAME OF COMPANY OF INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE NAMES OF OFFICERS CARRESTS

RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUFFRINTENDENT.
TOWN AND COUNTY.	
Malone Hastings Ry, 119.	Crescent Gold Mining Co., Ltd., Montreal, Que., Room 12, 30 St. John st. P. Alex, Peterson, prest.; Thomas Watson, seey, and treas.; George McDongall, mgr. and supt. Cap. stk. \$106,000. Crescent, gold. Shaft; free; steam; 10 stamps (developing).
Port Arthur Algoma Ry, 96, 386.	Lily of the Valley Mining Co. J. Brimson, seey.; W. J. Barre, treas.; H. Parsons, mgr. and supt. Lily of the Valley, silver. 2 shafts; free; hand.
** *** - **	V-one Mining Co., Chicago, Ill., 114 Adams st. J. S. Morgan, prest, and mgr.; H. S. Spragne, seey.; John T. Huntington, treas. Cap. stk. \$5,000,000. V-one, silver. Shafts and tunnel; free.
Rat Portage . Algoma Ry. 96.	Bad Mining Co., P. O. Box II. Bad, silver. Free (developing).
(12 miles).	Alex, Matheson. The Premier, gold. Shaft; free; horse and hand.
	C.S.Morris,Toronto,Out.,119Wellesleyst. X90andRossland,gold. Freeandrefractory(developing).
Silver 1stet Algoma (No P. O.) Ry. 386.	Canada Land Purchase, Detroit, Mich., 80 Griswold st. John J. Marvin, Henry S. Sibley, trustees, Trust certificates \$100,000. Silver Islet, silver. Shaft; free; steam; 50 stamps. Capt. T. R. Trethewey, supt.
Silver Mountain Algoma Ry, 595a.	E. F. Drake Estate, St. Paul, Minn, 201 Drake Block, Third st. A. M. Drake, mgr.; West End, silver, Shaft and tunnel; steam and hand. Wm. Rapsey, supt.
(3 miles).	Guaranty Silver Mining Co., Minneapolis, Minn., 816 Elwood av. A. C. Dunn, prest.; John G. Rickel, seey, and treas.; A. D. Westby, mgr. and supt. Cap. 8tk, \$500,000. Guaranty, silver. Shaft; free; steam (developing).
**	Shumah Weachu Mine Co., Ltd., Liverpool, Eng., Dafe st. Frank Tobin, prest.; V. K. Fry, seey, and treas.; Arthur L. McEwen, mgr. and supt. Cap. stk. \$500,000. Shumah Weachu, silver. Shaft and driffts; refractory; steam; 10 stamps.
Strange Algoma P. O. and Ry. Silver Mountain 595a.	Silver Chief Mining Co., Minneapolis, Minn., 30t N. V. Life Bldg. Frank E. Mix, prest.; F. M. Hutchinson, seey.; Chas. L. Mendel, treas.; B. F. Moore, ingr. Cap. stk. \$300,000. Silver Chief, silver. Shaft; free.
* **	Silver Lake Mming Co., Duluth, Minn., 5 E. Third St. H. R. Tinkham, prest; E. Tinkham, seey; J. H. Hyher, treas; A. D. Cummings, mgr. Cap. stk. \$2,000,000. Silver Lake, Silver and Iron. Shaft; free; band.
Wabigoon Algoma (P. O. Barelay) Ry. 96,	Minnesota & Lake Maniton Gold & Silver Mining Co., Benson, Minn. Thomas Knudson, prest.; Anton Arneson, seey.; Peter J. Johnson, treas, George Canden, ngr. Cap. stk. \$20,000. Gold and silver. Tunnel, 3,000 fons; refractory. Firmin Bedard, supt.
P. O. and Ry. Sudbury	Guld Rock Mining & Milling Co., Ltd., Toronto, Ont., James Beaty, vprest., Jos. J. Davis, seey.; Union Baink, trens.; Kewman & Townsend, ingrs. Gost, \$100,000. Gold Rock and Rabbit Island, gold and lead. Free (developing). E. S. Townsend, supt.
	GYPSUM
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMEANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPPRINTENDENT.
TOWN AND COUNTY.	
CayugaHaldimand Ry. 290.	Adamant Mannfacturing Co. of America, Syracuse, N. V., 309 E. Genesce st. E. W. Parmelee, prest.; S. S. Ruston, seey.; C. T. Rockway, treas.; W. B. Cherry, mgr. Cap. stk. \$500,000. Adamant. Drift; steam, mill. J. A. Nellis, supt.
ManchesterOntario Ry, 290,	Ezra Grinnell, Port Gibson, N. V. Cap. \$1,000. Port Gibson. Open pit, 500 tons; water.
Paris Brant Ry. 290,	Alabastine Co., Ltd. M. B. Church, prest.; J. M. Wheeler, seey., treas, and mgr. Cap. stk. \$34,000. Paris Plaster. Tunnel, 1,000 tons; hand.
ThoroldWelland Ry, 290,	Estate of John Battle. Tunnel and open pit, 3,600 tons; water; cement mill, capacity 7,200 tons. Matthew Battle, supt.
	TIM ONT

## IRON

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Mine, Kind of Orf, Kind of Mine, Annual Output in Tons of 2,000 Pouxds, Kind of Power Used, Blast Funnaces, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
Bedford Wills . Frontenac	Bedford Mining Co., Kingston, Ont. R. J. Cartwright, prest.; Joseph Bawden, seey, and mgr.; J. I

Ry, Bedford Sta. 368. McIver, treas. Cap. stk. \$250,000. Black Lake, Lehman, magnetic. 500 tons. Carleton Place.. Lanark William H. Wylie, Flora st. Tron Duke, Bessemer. Open pits; hand. Ry, 368.

Atikokan Mining Co., Duluth, Minn., Room 303 Burrows Block. Cap. stk. \$250,000. Atikokan, brown hematite. Tunnel (developing). Du River La Seine Rainy River District (No P. O.) Ry, Duluth, Minn., 96.

FortWilliam, WestAlgoma Mattawin Iron & Mining Co., Kingston, Out. B. W. Folger, prest.; Henry M. Folger, treas.; James Hambley, 96. Mattawin Iron Range, hematite.

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#### ONTARIO]

Town

#### IRON-(CONTINUED)

LOCATION OF MINE.
RAILWAYS, WATER ROOTES
AND SHIPPINO POINT.

FOWN AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2011 POUNDS, KIND
OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Kaministiqua : Algoma Kaministiqua Iron Co., Minneapolis, Minn. H. S. Smith, prest.; Clinton Stacy, seey.; G. A. Castle, treas.; Ry. 96.

S. H. Hall, nigr. Cap. 8tk. \$100,000.

Marks Algoma Robert G. Chandler, trustee, Coldwater, Mich. Bessemer, magnetite. Shaft; hand. P. O. and Ry. Port Arthur 96, 325a.

Eathock ... Jamark Wylie, Weekes & Co., Carleton Place, Ont. White Birch, pyrites. Shaft; horse. Henry McCadden, supt. By. Clyde Forks 38.
White ... Jamark William H. Wylie, Carleton Place, Ont. La Consine, magnetic. Open pit; water.

Ry, Flower Sta. 388.

Ptetrhore
Belmont Ressemer Ore Co., Lid., New York City. 29 Broadway. James M. Ashley jr., prest.: John T.
Sill, v-prest. Robt, L. Major, sery, and gen. mgr.; Wm. A. Kissam, tress. Cip. stk, §500,000. Belmont, bessemer and magnetic. Sharf, 37,000 lons; steam. G. L. Woodworth, spit.

### LEAD AND ZINC

LOCATION OF MIRE RAILWAYSE, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KING OF ORE, KING OF MINE, ANNUAL OFFICT IT TOSS OF 2,000 POUNDS, KIND OF LOWER USER, SECRETERS, ETC., AND NAME OF MINE SCIENTIFICATION OF

Carleton Place. . Lanark Wylie & Cram. Lynch, fead. Open pits.

COUNTY

Lansdowne, Leeds H. L. Barker & Co., Lyndhurst, Ont. Lyndhurst, lead. Shafts and tunnel, horse and hand; smelter, 900 Ry, 290.

#### MICA

LOCATION OF MINE.
RAILWAYS, WATER ROUTES
AND SHIPPIND POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE. NAMES OF OPPICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF PRODUCT, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,001 POUNDS, KIND

OF POWER USED, ETC., AND NAME OF MINE SUFFERINTENDENT.

Klingston Ry, 290. Frontenac Gould Lake Mining Co., Belleville, Ont. Dr., John Grant, prest, and mgr.; A. McClatchle, seey, and treas. Cap. 8tk, \$300,000. Gould Lake. Shaft, 15 tons, horse.

Loughb'ro Twp. Frontenac | Bell, Wylie & Co. | W. H. Wylie, seey.; W. McCadden, mgr. | Cap. stk. \$10,000. | Buck | Lake. | Open pit and shaft, 2,000 tons. | hand.

Miller Twp — Frontenac C. A. Matheson. Landric. Open pit (developing). P. O. and Ry. Perth 96.

North Burgess : Lanark McMartin & Lee: Open pits: D. G. McMartin, supt. P. O. and Ry. Perth 96.

" Ogle Carss, Cap. \$5,000. Mica. Open pit, 30 tons; hand.

Sydenham Addington Fred. Foxton, Cap. \$100,000, Shaft, Steam, James Foxton, supt

Frontenae Bell, Wylie & Co., Carleton Place, Ont. Wm. H. Wylie, mgr. Roucchorn. Shaft; hand. Henry Me-(P.O.) Perth Road Ry. Cadden, supt. Harrowsmith 96.

#### NICKEL

LOCATION OF MINE,
RAILWARS, WATER ROUTES

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TOSS OF 2400 POUNDS, KIND

OF POWER USED, SMELTERS, ETG., AND NAME OF MINE SUPERINTENDENT.

Blezard Twp Nipissing Saint Nicholas Nickel Mining Co., Toronto, Ont. Cap. stk. §590,00). Blezard and Salter, nickel and P. O. & Ry. Sudbury 98. copper. Shatts, 2,000 tons; hand and steam; smelter. Andrew Waddell, supt.

Carleton Place Lanark Wylie & Weekes. Machan, nickel. Open pit.
Ry, ass.

Graham Algoma F. Summerby, Nickel and copper, Shaft, P.O.K Ry.Whitefish 96.

Little Current Algonia Master-Lode Nickel Co., Duluth, Minn. A. M. Stearns, prest., F. A. Fenton, secy.; Geo. A. Elder, treas By. 36, W. C. Dresser, mgr. Cap. stk. \$1,000,000. Wallace, nickel and copper. Open pits.

## NICKEL-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company of Individual, Location of Principal Office, Names of Officers, Capital Stoce, Name of Mine, Kind of Ore, Kind of Mine, annual Outfut in Toks of 200 Founds, Kind of Power Used, Subliter, Etc., and Name of Mine Referentifendert.
Town AND COUNTY	OF TOTAL COLD, COMPTING DICH AND MAKE OF MINE PUPPARATENDESS.
NelsonvilleAlgoma Ry. 96.	Algoma Nickel Co., Chicago, Ill., 524 Home Insurance Bldg. John Cudahy, prest.; E. C. Modenvell, seey.; S. P. Parmity, treas.; John C. Jackson, mgr. and supt. Cap. stk. \$250,000. Lorne, nickel and copper. Shaft; hand developing.
"	Commercial Mining Co., Ltd., Toronto, Ont., 106 King st. W. Arthur H. Hilyard, prest.; Herbert A. Hilyard, seey, and treas.; Robert H. Alm, mgr, and supt. Cap. stk. \$100,000. Star of the West. Shaft; hand.
Nickel City Algoma P.O.& Ry. Whitefish 96.	Barnet, Russell & Co., Renfrew, Ont. Nickel City. Shafts (developing).
Straight LakeAlgoma (P. O. Cartier) Ry. 96.	Craig Syndicate, Toronto, Ont., 9 Toronto st. G. H. Watson, prest.; James Todhunter, secy.; W. J. McWhinney, treas.; George Wallace, mgr. Cap. stk. 830,009. Craig, nickel and copper. Shaft and open pit, 15,5000 tons; steam; furnace.
"	Straight Lake Nickel Mining Co., Ltd., Toronto, Ont., 15 King st. W. B. Barelay McMurrich, prest.; Harry Vigeon, secy. and treas.; J. R. Gordon, mgr. Cap. 8tk. 8300,000. Straight Lake, nickel. Open pit, 30,000 tons; steam.
SudburyAlgoma Ry. 96.	Bonanza Nickel Mining Co., Toronto, Ont., 391 Yonge st. J. G. Rimer, prest, and treas.; Geo. B. Foster, secy. Cap. stk. \$150,000. Bonanza, nickel, platinum and copper (developing).
" - "	Commercial Mining Co., Ltd., Toronto, Ont., 106 King st. W. A. H. Helyard, prest.; H. A. Helyard, seey, and treas.; John Danfo, mgr. Cap. stk. \$100,000. Commercial, nickel. Shaft and tunnel; electricity.
**	E. H. Davis, Montreal, Que. E. S. Townsend, mgr. Beafrice, nickel and copper. Shaft; hand (developing).
**	Emens Metal Co., Johnstown, Pa. Gerstoffite, nickel. Shaft and open pit; hand (developing). R. H. Ahn, supt.
	H. H. Vivian & Co., Ltd. London, Eng., 9 Queen st. place, E. C. H. Hussey Vivian, prest.; Robert Sidgley, seey.; A. S. Merry, mgr. Murray, nickel and copper. Shaft, 12,300 tons; steam; furnace. G. Norman Henriksen, supt.
Wahnapitae Nipissing Ry. 96.	Malcolm McPhee, Pembroke, Ont. McPhee, nickel, copper and gold. Open pit.
****	Ontario Nickel Mountain Mining Co., Ltd., Toronto, Ont., 88 Ellioft st. J. Knox Leslie, prest.; G. S. Macdonald, seey, and treas. Cap. 8tk. \$500,000. Nickel, lead and gold. Shafts (developing).
Whitefish Algoma Ry, 96.	Barnet & Russell, Renfrew, Ont. Cap. \$25,000. Homestead. Shaft; hand (developing).
. "	Drury Nickel Co., Ltd. A. P. Travers, prest.; Thos. L. Nelson, secy.; H. R. Valpey, treas.; Thos. Travers' mgr. and supt. Cap. stk. \$500,000. Inex. Open pit; steam, water jacket.
**	Nickel Belt Mining Co., Ltd., Toronto, Ont., 144 King st. E. John Jones, prest.; H. C. Secord, seey, and treas. Cap. 8tk. \$75,000. Empire. Shaft (developing).
	Vermillion Mining Co., Cleveland, Ohio. Stevenson Burke, prest.; H. P. McIntosh, secy, and freas. Vermillion, nickel and copper. Horse.
Worthington Algoma P. O. & Ry. Sudbury 96.	Dominion Mineral Co., Sudbury, Ont. John McIntyre, prest.; H. Cutt, secy.; F. I. Shaw, treas.; J. Cameron, mgr. and supt. Shafts, open pit: steam: furnace.
. **	Saulf Ste, Marie Nickel Mining Agency Co., Ltd., Sault Ste, Marie, Ont. John McKay, prest.; D. M. Brodie, secy.; John Dawson, treas.; J. B. Miller, mgr. Cap. stk. \$45,000. McKay. Open pit.
	РИО⊳РНАТЕ
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY,	Name of Company or Individual Location of Principal Office, Names of Officers, Capital Stock, Name and Kind of Mine. Annual Output in Tons of 2,000 Founds, Kind of Fower Used, Mills, Etc., and Name of Mine Syfermytendent.
Burgess Twp Lanark	
P. O. and Ry. Perth 96.	Gould Lake Mining Co., Belleville, Out. Dr. John Grant, prest, and mgr.; A. McClatchie, seey, and treas.
Ry, 290.	Cap. stk. \$300,000. Gould Lake. Tunnel, 15 tons; horse.  N. W. Richardson, Loboro Lake. Shaft, 750 tons; steam and hand.
Lake Opinicon Frontenac Ry, Harrowsmith 381.	
	Kingston Phosphate Co., Montreal, Que. Rock Lake. Shaft, 2,000 tons; steam. Chas. A. Pyne, supt. Loiner & Bell, Amprior, Ont. Niel Cochran, mgr. and supt. Cap. \$40,000. Bell. Shaft, 2,000 tons; steam.

Sydenham.... Addington Fred Foxton. Cap. \$100,000. Shaft, 500 tons; steam. James Foxton, supt. Ry. 290.
 ... " C. J. R. Stirling, Kingston, Ont. Cap. \$10,000. Striling, phosphate and mica. Shaft and drift; horse, band and steam.

N. Bargess Twp. Lanark Ogle Carss. Cap. \$5,000. Standard, phosphate. Open pit, 200 tons; hand, (F. O. Smith's Falls) Ry. Perti 96.

North Burgess Lamark Anglo-Canadian Phosphate Co., Ltd., London, Eng., 28 Grace Clurch 8t., E. C. J. J. Reid, prest; G. D. \*
demnings, eegy; Robert C. Adams, gar, Cap. 8tl, Santono, Otty Jake, Bobs Lake, Battle Lake and
17 others, phosphatte, mica. Shatta and open pit, Londonos; borse and hand. Robert Cordied, supt.

### SALT

LOCATION OF MINE	
OR WELL, RAILWAYS, WATER ROUTES	
AND SHIPPING POINT.	

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock. NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Town 6 N/ Ex

Clinton Ry. 200. . Huron John McGarva, Cap. \$15,000. Clinton Salt Works, fine and coarse. Well, 25,000 bris.; steam. James Shepherd, supt.

Henry Ransford. Stapleton Salt Works, fine and coarse. Well, 40,000 brls.: steam.

Goderich Rv. 290, 379,

Huron Joseph Kidd, Cap. \$10,000. Dominion Salt Works, dairy, table, fine and coarse. Wells, 30,000 brls, steam.

Peter McEwan. Cap. \$20,000. Goderich Salt Works, dairy, table and common. Well, 20,000 bris.; steam. Ogilvies & Hutchinson, M. Hutchinson, mgr. Coarse. Well, 800 tons; steam. John S. Platt. Cap. \$12,000. Maitland Salt Works, dairy, fine and coarse. Well, 15,000 brls.; steam and

Warwick Ry.Kingscoutt 290, 368 369.

Lambton Earlton Salt Works Co., Ltd. C. V. Morris, prest.; T. G. Morris, seey., treas, and mgr. Cap. stk. \$10,000, tt 290, 368. Earlton, dairy, coarse. Wells, 129,035 brls., steam.

### STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

JAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMEBILDS AND CAPACILY, ETC., AND NAME OF MINE SUPERINTENDENT.

Arnprior . Rv. 96. Renfrew John G. Watson. Cap. \$4,000. Ottawa Grand, marble and limestone. Steam, mill.

Beamsville

Lincoln William Gibson. Beamsville, limestone. 65,000 tons; steam, mill. John Ritchie, supt.

Carteton Place

Lauark Daniel R. McNeely, Union. Open pit, hand and horse,

Cayuga . . . . Ry, 440, 290.

Haldimand Reld Gibson, Cap. \$10,000. Gibson, limestone. Open plt; hand,

Credit Forks

Cardwell Carroll, Vick & Co., Toronto, Ont., \$4 Adelaide st. W. Cap. 830,000. Brown and gray sandstone. Tunnel, 10,000 tons, steam and horse, mill.

Rv. 96.

Credit Valley Quarries Co., Ltd., Toronto, Ont., 86 Bay st. A. Myers, prest., ngr., and supt.; Chas. Elliott, seey, and treas. Cap. 8tk. 845,000. Credit Valley, gray and brown sandstone. Open pits, 15,000 tons, steam; mill.

Scott, Pattullo & Co., Orangeville, Ont. Cap. \$75,000. No. t Credit Forks, brownstone. Tunnel, 16,400 tons, steam. Herman Pattullo, supt. Perth Anthony Allen (local). Cap. \$8,000. Cromarty, limestone. Open pit, 200 tons: hand.

Cromarty . Ry, Dublin 200. Elmsly Twp. Lanark P. O. and Ry. Perth 96.

Grimsby Ry. 381.

Wentworth Grimsby Quarry Co., Ltd. S. Webster, prest., F. T. Webster, seey, and treas.; F. L. Webster, mgr. and supt. Cap. stk. \$20,000. Gray and brown sandstone. Slope, 12,000 tons; horse, hand and steam. Britnel & Charlton, Toronto, Ont. Cap. \$5,000. Inglewood, freestone. Slope, horse,

Inglewood Rv. 96, 290. Cardwell

Charlton & Co., Toronto, Ont., 1127; A Vonge st. Cap. 8(k, \$3,000). Gray sandstone. Open pit, 4,000 tons, horse and hand. Anthony Charlton, supt.

David Graham. Cap. \$40,000. Sandstone. Open pit, 4,500 tons, hand. Donald Sinclair, supt.

Thomas Murray, Cap. 810,000, Inglewood, freestone, Slope; horse, William Smeaton, Cap. \$20,000. Credit Valley, brown and gray sandstone. Open pit, 4,500 tons, steam and horse.

William Wilson. Sharp's, sandstone, rubble. Open pit, 400 tons; horse, mill. Halton Alexander Garvin, Cap. \$1,000. Chanley, gray sandstone. Slope, 7,000 tons, hand; stone mill.

Limehouse Ry. 290

Toronto Lime Co., Ltd., 448 Espianade st. Thos, Gowdy, prest.; W. L. Scott, secy. and treas. Cap. stk. \$72,000. Limestone. Kiln, 6,000 tons.

Madoe Ry. 290. Hastings J. Brodigan & Co. Victoria, limestone. Open pit, 425 tons; steam. W. P. Kerr, supt

Milton

Halton W. J. Hartley. Cap. \$1,000. Mountain Vein, sandstone. Slope; hand; kiln, 600 tons.

D. Robertson & Co., Toronto, Ont., 423 Manning av. Rockview, Ilmestone and sandstone. Open pit, 50,000 tons; horse and hand; mill, kiln, 4,800 tons. D. S. Robertson, supt.

Mono Two P.O.& Ry.Orangeville 96.

Cardwell William H. Hewson, Cap. \$2,000. Nottawa, sandstone. Open pit, 400 tons; hand,

Owen Sound Stone Quarrying & Construction Co., Ltd., Owen Sound, Out. S. J. Parker, prest.; W. B. Stevens, seey, and treas: P. W. Sabiston, high. Cap. stk. \$80,000. Mono, gray sandstone. Stope, Stevens, seey, and steam (developing).

Oneida Twp., Haldimand | Oneida Quarry Co., Ltd., Brantford, Ont., 45 Market st., George H. Wilkes, prest., J. R. MacKintosh, P. O. and Ry, Nelles | Sery, and treasa; C. S. Hutchkles, v.-prest, and mgr. Cap. stk. \$50,000. De Cew, sandstone and marble. Steam developing.

### STONE, MARBLE, GRANITE AND ONYX-(CONTINUED)

LOCATION OF MINE OR QUARRY, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

AND COUNTY.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCIFAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF
2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERLINS AND
CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Orangeville. . . Wellington A. Franks (lessee), Orangeville. Freestone, white sandstone. Open pit, 1,600 tons; horse. Isaac Nicholas, supt.

Perth...... Lanark T. Alfred Poole. Otty Lake, limestone. 200 tons; hand; kiln, 80 tons. Ry, 96.

Renfrew . . . . Renfrew Canadian Granite Co., Ottawa, Ont. A. McLean, prest.; J. C. Rogers, seey.; C. I. Rogers, mgr. Cap. Ry, 96. St.250. Plant's, gray marble. Open pit, 255 tons; hand. Fred Hilliard, supt.

Rockdale ... Peterboro T. D. Ledyard, Toronto, Ont., 57 Colborne st. Belmont, white marble. Open pits and shafts. J. F. Ry. Havelock 96, Purdy, supt.

Thorold. . . . . Welland Wm. Cartmell. Cap. \$10,000. Mountain, gray limestone. Open pit, 6,000 tons; steam and horse. Ry, 290.

SEE ALSO SUPPLEMENTARY LIST

# QUEBEC

### ANTIMONY

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK.

NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, AND NAME OF MINE SUPERINTENDENT.

South Ham

Wolfe James Reed, M. D. Cap. \$30,000. South Ham, antimony. Shafts, tunnels; steam.

### ASBESTOS

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT. COUNTY

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.

Black Lake. . . Megantic (P. O. Desjardins) Ry .Megantie 609,

Anglo-Canadian Asbestos Co., Ltd., Montreal, Que., 30 St. François Vavier st. Trwin, Hooper & Co., mgrs. Cap. stk. \$125,000. Open pits, 1,100 tons; steam

Glasgow & Montreal Asbestos Co., Ltd., Glasgow, Scotland, 68 St. Vincent st. Matthew Penhale, mgr. and supt. Cap. stk. \$550,000. Glasgow and Montreal. Open pits, 4,000 tons; steam. A. Tremblay, St. Agapit, Lotbiniere County, Que. Cap. \$60,000. Ashestos. Open pit (developing).

Beandoin, Veasy & William, East Broughton, Que. Cap. \$16,000. Asbestos. Horse and hand (develop-

United Asbestos Co., Ltd., London, Eng., Dock House, Billiter st., E. C., James Allport, prest.; J. Alfred Fisher, treas, and mgr. Cap. stk. \$500,000. Asbestos. Open pits, 800 tons; steam. John J. Penhale,

Broughton Station Reauce

Alf. Gagne. Open pit.

Glasgow & Montreal Asbestos Co., Ltd., Glasgow, Scotland, @ St. Vincent st. Matthew Penhale, mgr. and supt. Cap. stk. \$350,000, Glasgow and Montreal. Open pits, 1,000 tons; steam.

Buckingham

Hall & Price. Quebec, Que. Price. Hand (developing). Asbestos Mining & Manufacturing Co., Denver, Colo. Arthur McConnell, prest, and mgr.; G. W. Carn-shaw, seey.; F. H. Whiting, treas. Cap. stk. 8100,000. Tunnel (developing).

ColeraineStationMegantie | Ry, Black Lake 609.

Amenian Asbestos Co., Ltd., Liverpoot, Eng., 5 Chapel Walks. Louis Werthelm, prest.; D. Vabrielsen, seey, and trens.; Ed. Werthelm, n.gr. Cap. stk., \$200,000. Werthelm. Open pits, tunnels; steam and compressed air. L. A. Melin, supp.

Danville

James Reed, M. D., Desjardins, Que. Cap. \$100,000. Asbestos. Open pits, 150 tons; steam and compressed air. James Savage, supt. Richmond W. H. Jeffery, Cap. \$750,000. Danville. Open pit, 2,000 tons, steam. Robert L. Thorpe, supt.

Ry. 290. Hull Rv. 96.

Asbestos Mining & Manufacturing Co., Denver, Colo., 43 Tabor Block. Arthur McConnel Carnshaw, seey.; F. H. Whiting, treas. Cap. 8tk. 8100,000. Shaft; steam (developing) Arthur McConnell, prest.; G. W. Templeton Asbestos Mining Co., Ltd., London, E. C., Eng., 4 Hercules Passage, Threadneedle st. Rudolph Wissmann, prest.; G. T. du Clouth, seey.; Friedrich Cirkel, mgr. and supt. Cap. stk, \$125,000. Open

Perkins . Ottawa Ry, East Templeton 96 Ottawa St.François BeanceBeauce

Beance Asbestos Co. J. Godbout, prest., P. Augers, seey, and mgr.; T. Fortler, treas. Cap. 8tk. \$10,000. Des Plantes. Open pit and shaft.

Thetford Mines Megantle

Bell's Asbestos Co., London, S. E., Eng., 418 Southwark st., John Bell, prest.; J. J., Maclaren, seey.; D. A. Brown, mgr. Bell's. Open pits; steam and compressed air. Geo. R. Smith, supt.

Johnson's Asbestos Co., Quebec, Que,, St. Peter st. Geo, Irvine, prest.; Lawrence Lynch, seey, and treas., A. S. Johnson, mgr. and supt. Cap. stk. \$250,000. Johnson's. Open pit, 1,300 tons; steam. Thetfords Asbestos Cotton Co., New York City, 45 William St. Edmund W. Powers, prest; J. W. Bauer, seey., F. I. Whiteomb, treas; Ocear 17, Barron, mgr. Cap. 8tk, \$160,000. Power's. Open pit, 500 tons; steam. Patrick Cambella, supt.

Wolfe Ry, Coleraine Sta. 609

A. O. Bergeron. Open pit; horse.

### COPPER

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Company or Individual. Location of Principal Office, Names of Officers, Capital Stock, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Broughton Station Beance Leeds Copper Co., Ltd., London, Eng., 11 Bloomfield st., E. C. R. P. Gould, prest.; C. H. Smith, seey. Ry. 609. Cap. 848, \$300,000. Leeds, copper. Shaft, 10,000 tons; steam. Fred. Hosking, supt. Robertson Sta., Megantic Theodore Pare, Cap. \$2,000. Pare's, copper. Open pit; hand,

Rv. 609. Sutton.

.Brome Daniel F. Smith. Cap. \$10,000. North Sutton, copper. Shaft; horse

West Broughton, Megantic James Noonan, Copper, Open pit.

	GOLD AND SILVER
	GOLD AND SILVER
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PEINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF GRE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Jersey Mills Beauce Ry. St François 325.	Louis Gendreau. Jersey, gold. Placer; free; water.
LeedsMegantic Ry, Broughton Sta. 609.	John H. Nutbrown, West Broughton, Que. Gold and copper. Shaft and drift; refractory; hand.
Ry. St. Frangois 609.	John Armstrong & Co. Armstrong, gold and silver. Shafts; free; hand.
PattenBrome (P. O. Eastman) Ry. 96.	Memphremagog Mining Co., Eastman, Que. C. C. Smith, prest.; Thomas Bell, secy, and treas. Cap, \$50, 000. Patten, silver, copper and iron. Shaft and tunnel.
RisboroughBeauce Ry. 96.	John Armstrong & Co., Marlow, Que. Armstrong, gold and silver. Shafts; free; hand.
	IRON
LOCATION OF MINE,	
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMEANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USEO, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
AscotSherbrooke Ry. and P. O. Eustis 71.	Eustis Mining Co., Capelton, Que. N. E. C. Eustis, prest., seey, and treas.; John Blue, mgr. and supt Cap. 8tk, 8550,000. Eustis, iron and copper pyrites. Slope and shaft, 40,000 tons; steam and com- pressed air.
Bristol Pontiae (P. O. Billerica) Ry. Wymans 96.	Ennis & Co., Philadelphia, Pa., 429 Walnut st. Bristol, magnetic. Shaft, slope, open pit, 55,000 tons steam. Thos, M. Williams, supt.
Leeds Megantic Ry, Robertson Sta.609.	
Montreal Champlain Ry, 96, 290.	Canada Iron Furnace Co., Lid., Montreal, Que., New York Life Insurance Bldg. P. H. Griffin, prest. Thos. J. Drummond, seey.; Geo. E. Drummond, treas.; John J. Drummond, agr. and supt. Cap 8tk, \$200,000. Bog and magnetic, 40,000 tons; furnace, 15,000 tons. (Mine in Champlain county.)
Sherbrooke,Sherbrooke Ry, 600.	S. E. Smith. Smith's, magnetic. Shaft (developing),
	MINERAL PAINT
LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Peincipal Office, Names of Officers, Capital Stoce.  Name of Mine, Kind of Product, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Painy Mills, Etc., and Name of Mine Superintendent.
TOWN AND COUNTY.	
Three Rivers . Champlain Ry, St. Malo Siding 96.	Canada Paint Co., Ltd., Montreal, Que., 572 William st. S. F. McKinnon, prest.; H. M. Pellatt, secy., Gustaf Gylling, treas.; Robert Munro, mgr. Cap. st. & \$50,000. St. Malo, magnetic iron oxide. Open pit, 400 tons; horse and hand. (Mine in Champlain country).
	РИОЅРНАТЕ
LOCATION OF MINE.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK,
RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPAN OR INDIVIDUAL, ESCATION OF FARSIER OF FACE, SAMES OF OFFICERS, CAPITAL STOCK, NAME AND KIND OF MINE, ANNUAL OUTPUT IN TONS OF \$2.00 POUNDS, KIND OF POWER USED, MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND COUNTY.	
Buckingham Ottawa Ry, 96.	Canadian Phosphate Co., Ltd., Montreal, Que., 201 Commissioners St. H. C. Miller, prest, and mgr.; P. C. Packard, secy. Cap. stk. \$204,000. Open pits and tunnel, 8,000 tons; steam. Thos. Lyons, supt.
11	East Templeton District Phosphate Mining Syndicate, Ltd., London, Eng., 4 Fenchurch st. J. F. Higgin son, mgr. Cap. stk. \$90,000. Shafts, open pits. 5,000 tons; steam; mill. 7,500 tons. S. Hunter, supt.
	General Phosphate Corporation, I.td., London, Eng. Lord Stalbridge, prest.; J. L. Langmend, seey.; Alex, Benson, mgr. Cap. stk, \$1,000,000. High Falls and Ross Mountain. Pits and shafts, 5,000 tons, steam. Wun. R. Stewart, supt.
	A D. A.

Glen Almond Ry, Buckingham 96.

Perkins ..., Ottawa Ry, East Templeton 96.

East Templeton. Ottawa Canada Industrial Co., Ltd., Montreal, Que., 180 St. James st. C. B. Falardeau, prest, and mgr.; F. R. Ry. 96.

White, secy-treas. Cap. stk. \$50,000, Phosphate, mica, feldspar, barytes, a sbestos and quartz. Slope, pit, shaft, \$600 tons; steam. E. Leelers, supt.

East Templeton District Phosphate Mining Co., Ltd., Montreal, Que., 8 Custom House Square. A. Hunter, prest; C. M. Anderson, secy-treas. Cap. stk. \$100,000. Blackburn. Shaft and open pit, 6,000 tons; steam. J. F. Higginson, stpt.

Electric Mining Co., Ltd., Ottawa, Ont., 16 Metcalf st., J. W. McRae, prest.; H. McRae, seey, and treas, Cap. stk, \$40,000. Bull Dog and Divel Lake, rock phosphate. Shafts and open pits, 2,000 tons; steam and electricity. James Kelly, supt.

Ottawa Emerald Phosphate Co., Buckingham, Que, Emerald, Slopes and tunnels; hand, Robert Henwood, supt.

High Rock...... Ottawa Central Lake Mining Co., Buckingham, Que. Central Lake. Shaft, tunnel, pit; steam. Joseph Gilchrist, Ry. Buckingham 96. supt.

Phosphate of Lime Co., Ltd., London, Eng. Augustus Abraham, prest.; Westwood Richards, seey. Cap stk, \$250,000. High Rock, phosphate of lime. Shaft, tunnel, pit, 6,000 fons; steam and compressed air A. P. Twidale, supt.

Netherlands Phosphate Co., Amsterdam, Holland. Eugene Bunge, prest.; J. Kogel, mgr. Cap. stk. \$200,000. Amsterdam, apatite. Shaft and pit; steam. T. C. Reichenbach, supt.

### SLATE

LOCATION OF QUARRY. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

Name of Company or Individual, Location of Principal Office, Names of Officers, Capital Stock, Name of Quarry, Kind of Slate, Kind of Quarry, Anneal Outret is Toss of 2,00 Dounds, Kind of Power Used, Mills, Etc., and Name of Quarry Superinstendent.

AND COUNTY.

New Rockland Richmond, Rew Rockland Slate Co., Montreal, Que., 337–84, Paul 84. Geo. A. Drummond, prest.; James Terrier, v.prest.; Thos. R. Bacon, secy.-treas. J. J. Williams, mgr. and supt. Cap. 848, 8450,000. Roofing slate. Open pir, steam, water, electricity, and

### STONE, MARBLE, GRANITE AND ONYX

Location of Mine or Quarry, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE OR QUARRY, KIND OF STONE, KIND OF MINE OR QUARRY, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STONE OR MARBLE MILLS, LIMERILIS AND CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Dudswell Centre Ry, 414.

Wolfe Dominion Line Co., Sherbrooke, Que. Frank Jones, prest., J. R. Woodword, seey.; F. K. Buck, treas, and mgr. Cap. stk. \$450,000. Dominion, limestone. Open pit, 16,600 tons; steam; klin, 16,000 tons. J. H. Barker, supplementary.

Sherbrooke & Dudswell Lime & Marble Co., Sherbrooke, Que. T. J. Tuck, prest., H. P. Buck, seey.; F. P. Buck, treas, and jugr. Cap. stk. \$50,000. Limestone and marble. Open pit; steam.

Perce. ... Ry, 707 and 38.

Gaspe Joseph O. Boncher, Cap. \$10,000. Limestone and plaster. Slope, open pit, 10,000 tons; horse; kilns, 10,000.

St. Alban. . . Portneuf Ry, La Chevrotiere 96. Portnenf

, George Beaucage, Portneuf, Que. Cap. \$50,000. St. Alban, cut stone. Open pit, 12,000 tons; steam, horse, hand; mill, hmckiln, 2,000 tons. François Beaucage, supt.

Stanstead, Rv. 7t.

Stanstead Stanstead Granite Co., Beehe Plain, Que. H. W. Elder, prest.; L. B. Fregeau, vice-prest.; L. W. Elder, seey-dreas; S. B. Norton, mgr., and supt. Cap. sik. 825,000. Stanstead, light and dark granife. Open pit, 6,000 lons, steam and horse; mill.

SEE ALSO SUPPLEMENTARY LIST



### SUPPLEMENTARY LIST

# MINING COMPANIES AND OPERATORS

### DOMINION OF CANADA

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE FAILED TO FURNISH DESIRED DETAILED INFORMATION FOR REGULAR LISTS

POSTOFFICE

NAME

### BRITISH COLUMBIA

### COAL BITUMINOUS

POSTOFFICE New Vancouver Coat Co. Namalino Kettle River Coat Co. . New Westminster Tumbo Island Coal Min-ing Co. . . . . Mayne . Victoria ... Wellington

### COPPER

C. J. Law .... Golden Stadacona Silver-Copper Mining Co.... Victoria

### COLD AND SILVER

L. Alexander & Co Ainsworth Mahama Hydraulie Gold
Mining Co B
Flynn Bros
Flynn Bros
Flynn Bros
Flynn Bros
Flynn Bros
Alwood & Co
Alwood & Co
Alwood & Co
Mwood & Sehonfeid,
Alwood & Sehonfeid,
Alwood & Leiron & Co
Alwood, Sulth & Co
Wm. Austin
A. Brown.
J. M. Buckley
Campbell & Creston
Campbell & Creston
Campbell & Ruenberger
R. Deuzler
Beuzler & Golds
Deuzler & Golds
John Douglass
John II, East
Ewing, Kinghily & Co, Boundary Creek Ewing, Knightly & Co. Frank George. Frauk Gome. Matt Hatter. J. F. Keene Lambly & Nicholson Lambly & Nicholson E. Lefron.
James Lynch.
Mrs. McAuley.
L. M. Met arren
W. McConnell.
Donald McLaren
Welcenan & Ray
Colin McRae
Donald McRae
Donald McRae
Mangate Taylor
Clarence Mitchell

SAME
Moran & Hammer B
A. C. Overton
Geo. Rifer
E. J. Roberts
Ruenberger & Taylor
Jamus Schoffeld
Ben. Shaw
Ben. Shaw Moran & Hammer . . . Boundary Creek Fairview L. F. Fattrek
W. J. Jorden, M. J. Jorden, M. J. Jorden, M. J. Jorden, Felix M. Punch
Felix M. Punch
Edmand D. Reynolds
H. Rase,
O. D. Samford,
Samford & Co.
Geo. Sheelam & Gwatkins
S. J. Jorden, M. Co.
Sheelam & Gwatkins
S. K. Shmann & Co.
J. W. Sheelam & Gwatkins
S. K. Shmann & Go.
J. W. Smid.
John Stevens,
Stevens & Gwatkins,
Stevens & Gwatkins,
Stevens & Gwatkins,
Stevens & Galrymphe
Travies & Dalrymphe
Travies & Dalrymphe
G. Wilkinson
G. W Granite Creek

NAME

Eaglet Freek Plathman Co. Granite Creek
Himest Freek Plathman Co.
New York Plathman Co.
Henry Hunter
Jan Wardle
Jan Grade Hong
Jan Grade Kerteneos
Cillison K. Judd
C. W. Gardner
John Garighey
John Marshall
Jo NAME POSTORRICK Smelling Co. Pilot Bay, vi. Nelson Cariboo Hyd. Mining Co. Quesnelle Champion Hyd. Mining Co. Quesnelle Champion Hyd. Mining Smelling Co. Revelstoke J. W. Haskins John Stauber Hugh Cameron. Rock Creek Charles Dietz. Win. Edwards. John Moran Hotter & Co. William Beather Big Boranza Go. Coyne Mining Co. Jos. Donavan David Edwards. Harry Jones. Justice Mining Co. Jos. Donavan Joavid Edwards. Harry Jones. Justice Mining Co. Jos. Monraker Co. Jos. Fred J. Tropitho. Fred J. Tropitho. John Reed.
Showlen Mining Co.
Fred J. Tregillis
V. L. White
John A. Yeats
John A. Yeats
B. C. Mining & Milling
G. Ed. Tregillis
Frazer liver Gold Grav-Victoria
Frazer liver Gold Grav-Vale
Whateon Gold Mining
C. Co. Yale Gold Mining Co. LEAD AND ZING

Ashworth & Jevons N. C. Hammond Gus Anderson. Ainsworth Golden Illieillewae Golden Hlieillewaet

476 THE MIN.	ING DIRECTORY—SUPP	LEMENT.
NAME POSTOFFICE	NAME POSTOFFICE	NAME POSTOFFICE
NAME POSTOFFICE J. B. Ramfeld. Thos. Bario " Corbin & Kennedy Lamark Cons. Mining & Smelling Co D. A. Laney " A. C. MeArthur " Alex MeRae " Watter Scott " Chas. Strawberg " Iohn Taylor " Rand Bros Vancouver	COLD AND SILVER	G. A. Wilson White Fish Thos. Martindale York
Thos, Bario " Corbin & Kennedy "	NAME POSTOFFICE Robert Wright Caribon Locley McLean FifteenMileStream Dincan McQuaig " Jos. Sonca. "	
Lanark Cons. Mining & Smelting Co	Locley McLean Fifteen Mile Stream	COLD AND SILVER
D. A. Laney	Jos. Sonea	James Bell. Amprior Badger Mining Co. Beaver Mine Climax Mining Co. Beaver Mine Climate Mining Co. Belleville Gillies Bros Braeside Jos. Buller & G. C. Seott-Chatham James Hammond Ft. William Mc Kelhand Silver Mining Co. Section Co. S
Alex McRae	Stanley Gold Co " South Uniacke Gold Min-	Rabbit Mount MiningCo. "
Chas. Strawberg	ing Co Halifax	South African General Expl. & Mining Co Belleville
Rand Bros Vancouver	Rockland Gold Mining &	Jos. Butler & G. C. Scott Chatham
	R. McLeod. Malaga Gold Mines	James Hammond Ft. William
SLATE	G. A. Wade	Co
R. Nightingale & Co Nanaimo Westminster Slate Co New Westminster	Henry Smith	Victoria Mining Co Garden River
	Duncan McQuaig. " Jos. Sonel. " Stantey Gold Co. " Stantey Gold Co. " Stantey Gold Co. " Stantey Gold Co. " In Go. " Halifax Big Co. " Milling Co. " Milling Co. " Malaga Gold Mines Malaga Mining Co. " G. A. Wade. " J. J. Brenton Middle Stewiacke Henry Smith Montague Gold Chas Armand Montague Gold C. P. Mayard " Mines	I Co II. Parsons Victoria Mining Co Garden River Elgin Silver Mining Co Jack Fish Bay J. C. Boyne Marmora ElboradoGoldMiningCo. Watter Betts Nickel City John Ferguson North Bay J. E. Askwith Ottawa Beaver Silver MiningCo. Fort Arthur James Connec.  V. Gartand Peter Geroux Thomas Marks & Co. Silver Montain Co. Society General Belgian Co.
STONE, GRANITE, MARBLE AND ONYX	Jonathan Irving Moose Landing	Walter Betts Nickel City
Malaspina Red Granite Quarry Co	S. Shorn	J. E. Askwith. Ottawa
Texada Lime Co	Jacob Dovell Oldham	James Conmee, "
Vancouver Brick & 149 CO	Grenough Bros	East End Silver Mount-
Lime ('o"	P. O'Shaughnessy "	N. Garland " Peter Geroux "
& Terra Cotta Co Victoria	Ed. Whidden	Thomas Marks & Co " Silver Mountain Co. "
Koksilah Quarry Co "	Chas, H. North "	Society General Belgian
	M. Thompson " Alonzo Hayward "	Wiley & Co
NEW BRUNSWICK	Thompson & Quirk Gold CoSouth Uniacke	T. S. Hampton Sharbot Lake
COAL	Antigoneth Co. Stormont	Society General Belgian Co Viley & Co. Los Stoble Port Lock T. S. Hampton Sharbot Lake Holmston Sudbury A. Merry Dani, O'Connor Sudbury Customs Silver (Co., Teanty
Canada Coal Co St. John	North Star Co " G. Clish Truro	A. Merry" Danl. O'Connor"
Canada Coal Co St. John Joggins Coal Mining Association "	G. W. Stuart	Sudbury Customs Silver
IRON	John Stephen Wing Harbor	J. M. Clarke Toronto W. D. McPherson
Londonderry Iron Wks. Londonderry	S. Shorth.  Pennisula Gold Mining  Jacob bowell	W. J. Skynner, esq " Straight LakeMining Co. "
STONE, GRANITE, MARBLE AND ONYX.	F Churchill & Sons Hansport	Surfourly Customs Surver  (O., Control of W. D. McPherson  W. J. Skynner, esq.  W. J. Skynner
Milne, Coutts & CoSt. George	Robert Chambers New Glasgow	CYPSUM
	D. W. McVicarTene Cape	
NODWINNESW WED	D. W. McVicar Tene Cape J. W. Stephens " Wm. Stephens "	
NORTHWEST TER.	E. Churchill & Sons Hansport Robert Chambers Xew Glasgow Nova Scotia Iron (co I. M. Martiner Tene Cape J. M. Martiner Tene Cape J. W. Stephens	Exeelsior Gypsum Min- ing Co
COAL	STONE, GRANITE, MARBLE AND ONYX	Exeelsior Gypsum Min- ing Co
COAL	STONE, GRANITE, MARBLE AND ONYX	Exeelsior Gypsum Min- ing Co
COAL	STONE, GRANITE, MARBLE AND ONYX	Exeelsior Gypsum Min- ing Co
COAL	D. W. McVierr	Exeelsior Gypsum Min- ing Co
Owen Osburn. Clover Bar Phill Ottowell. Leftbridge Smith.Nelson & Holway Middle Fork Stone & Wilson. " W. E. Stone. Pincher Creek	STONE. GRANITE, MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co
COAL  Owen Osburn Clover Bar Phill Ottowell. Clover Bar Shearran Mining Co. Lethbridge Smith.Nelson'k Holway.Middle Fork Stone & Wilson. Pincher Creek W. F. Stone Pincher Creek	STONE. GRANITE, MARBLE AND ONYX R. FISHET	Excelsior Gypsum Min- ing Co
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COAL  Owen Osburn Clover Bar Phill Ottowell. Shearran Mining Co. Lethbridge Smith.Nelson & Holway-Middle Fork Stone & Wilson. W.E. Stone Pincher Creek  COLD AND SILVER  II. N. Gibson Clover Bar Israel Adam. Fortsaskatchewan John B. Beaupre. Thomas Burleigh. James Dandy. Stanel Lamoureux Israel	STONE. GRANITE, MARBLE AND ONYX R: Fisher	Excelsior Gypsum Min- ing Co
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COAL  Owen Osburn Clover Bar Phill Ottowell. Shearran Mining Co. Lethbridge Smith.Nelson & Holway-Middle Fork Stone & Wilson. W.E. Stone Pincher Creek  COLD AND SILVER  II. N. Gibson Clover Bar Israel Adam. Fortsaskatchewan John B. Beaupre. Thomas Burleigh. James Dandy. Stanel Lamoureux Israel	STONE. GRANITE, MARBLE AND ONYX R: Fisher	Excelsior Gypsum Min- ing Co.,
COAL Owen Osburn. Phill Ottowell. Shearran Mining Co. Lethbridge Smith Nelson & Holway Anddle Fork Stone & Wilson. W. E. Stone. Pincher Creek  GOLD AND SILVER II. N. Gibson. Lister Barriegh. John B. Beaupre. Thomas Burleigh. James Dandy. James Dandy. STONE  W. H. Cushing Calgary J. MeIntosh Colpinal Bros Lethbridge Howard Bros. Canada Northwest Coal K Lumber Co. Milford	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
COAL Owen Osburn. Phill Ottowell. Shearran Mining Co. Lethbridge Smith Nelson & Holway Anddle Fork Stone & Wilson. W. E. Stone. Pincher Creek  GOLD AND SILVER II. N. Gibson. Lister Barriegh. John B. Beaupre. Thomas Burleigh. James Dandy. James Dandy. STONE  W. H. Cushing Calgary J. MeIntosh Colpinal Bros Lethbridge Howard Bros. Canada Northwest Coal K Lumber Co. Milford	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
COAL Owen Osburn. Phill Ottowell. Shearran Mining Co. Lethbridge Smith Nelson & Holway Anddle Fork Stone & Wilson. W. E. Stone. Pincher Creek  GOLD AND SILVER II. N. Gibson. Lister Barriegh. John B. Beaupre. Thomas Burleigh. James Dandy. James Dandy. STONE  W. H. Cushing Calgary J. MeIntosh Colpinal Bros Lethbridge Howard Bros. Canada Northwest Coal K Lumber Co. Milford	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
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COAL Owen Osburn. Phill Ottowell. Shearran Mining Co. Lethbridge Smith Nelson & Holway Anddle Fork Stone & Wilson. W. E. Stone. Pincher Creek  GOLD AND SILVER II. N. Gibson. Lister Barriegh. John B. Beaupre. Thomas Burleigh. James Dandy. James Dandy. STONE  W. H. Cushing Calgary J. MeIntosh Colpinal Bros Lethbridge Howard Bros. Canada Northwest Coal K Lumber Co. Milford	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
COAL  Owen Oshurm.  Phill Ottowell.  Shearran Mining Co Lethbridge Smith.Nelson & Holway Middle Fork Stone & Wilson.  W. E. Stone.  COLD AND SILVER  II. N. Gibson Study British State Adam.  John E. Beaupre.  Thomas Bartlegh.  Israel Adam.  John E. Beaupre.  STONE  W. H. Cushing Calgary  J. Melntosh Chover Bar  STONE  W. H. Cushing Calgary  J. Melntosh STONE  W. H. Cushing Calgary  J. Melntosh Lethbridge  Howard Bros Lethbridge  Howard Bros Lethbridge  A Lumber Co Millford  NOVA SCOTIA  COAL  R. McGraham Brookfield  East Bay Coal Co East Bay  Cape Breton Island.  Doughas Coal Mining Co. Maithand  East RiverCoal Co New Glasgow  Gowrie Coal Mining Co. Morth Sydney  Colorbester Coal Mining Co. North Sydney  Colorbester Coal Mining	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
Owen Osburn.  Owen Osburn.  Owen Osburn.  Owen Osburn.  Owen Osburn.  Owen Osburn.  Shearran Mining Co Lethbridge Shearran Mining Co Lethbridge Smith Nelsons Jlulway Middle Fork Stone & Wilson.  W. E. Stone.  COLD AND SILVER  II. N. Gibson.  II. Stone Brandy.  II. N. Gibson.  II. Stone Brandy.  III.	STONE. GRANITE. MARBLE AND ONYX R. Fisher	Excelsior Gypsum Min- ing Co.,
COAL  Owen Oshurm.  Phill Ottowell.  Shearran Mining Co Lethbridge Smith.Nelson & Holway Middle Fork Stone & Wilson.  W. E. Stone.  COLD AND SILVER  II. N. Gibson Study British State Adam.  John E. Beaupre.  Thomas Bartlegh.  Israel Adam.  John E. Beaupre.  STONE  W. H. Cushing Calgary  J. Melntosh Chover Bar  STONE  W. H. Cushing Calgary  J. Melntosh STONE  W. H. Cushing Calgary  J. Melntosh Lethbridge  Howard Bros Lethbridge  Howard Bros Lethbridge  A Lumber Co Millford  NOVA SCOTIA  COAL  R. McGraham Brookfield  East Bay Coal Co East Bay  Cape Breton Island.  Doughas Coal Mining Co. Maithand  East RiverCoal Co New Glasgow  Gowrie Coal Mining Co. Morth Sydney  Colorbester Coal Mining Co. North Sydney  Colorbester Coal Mining	STONE. GRANITE, MARBLE AND ONYX R: Fisher	Exeelsior Gypsum Min- ing Co

POSTOFFICE

POSTOFFICE
Sudbury
**
. Sydenham
. Sydenham Toronto
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Whitetish
. Whitefish
. **
ATE
. Kingston
. **
Ottawa
Victoria Chambers
Smith Falls
Tichborne
Toronto

### SALT

Enterprise Salf Wks, Brussels
North American Chem-
ical Co Goderlch
McMillan, Kittridge & CoPetrolia
Producers Tanking Co

### STONE

R. McDonald & Son	Arnorior
H. F. McLaughlin	
Wm. Spence	**
Win. Spence F. McEwen	Carleton Plac
Adamant Co	Cayuga
T. Martindale	**
Dent & Sons	Credit Forks
G G Smith	**
Smith & Way R. J. McGregor	**
R. J. McGregor	Inglewood
d. Meyers	14
d. Meyers Arthur Irvin	Kincardine
Rock Lake Mine.	. Kingston
John Craig	Limehouse
das, Newton	**
Essex Molding Sand Co	o. London
Milton Pressed Brick &	(
Sewer Pipe Co	Milton
W. Buchanan	Norval
V. McAndrew	
S. Vixon	11
Joseph Pattullo	Orangeville
Ormstown Brick & Terr	a
Cotta Co	Ottawa

NAME	POSTOFFICE
Captain Boyd Smith	Parkham
Anglo-American Minii	ng
Co ,	Perth
Wm. Davis	**
D. J. McDunla	**
A. J. Matheson	11
A. C. Vaughan	Port Arthur
d, A. Jamieson	. Renfrew
Thos, Henderson,	**
Morgan	44
C. A. Russell	
M. L. Russell	
R. J. Brodie	Smith Falls
Isaac Usher & Son	
Mynes Terra Cotta	& .
Brick Co	
Mycian Marble Co.	
Canada	
Toronto Gramte Co	
R. Lestie	West Toronto an

# 

NAME

### QUEBEC

### ASBESTOS

Brompton	Lake Asbes		
tos Min	ing Co	Brompton	Lake
Scottish Car	nadianAsbes	-	
tos Co.,		Broughton	

ing & Manufacturing & Asbestos Co....Richmond Beaver Asbestos Co... Sherbrooke

# COAL-BITUMINOUS

Cumberland Ry. & Coal Co. Montreal Imperial Bidg. Place d'Armes, Intercolonial Coal Min-ing Co. 199 Commissioner st.

### COPPER

Nicholas Chemical Co Capelton Excelsior Copper Co .W. Broughton

### IRON

John McDougall, .	Drummondyllk
Moisle Iron Co	. Moisie
Capt. R. C. Adams.	Montreal
Rhoe, Lower & Co.,	**
Octave Chantonny	W. Broughton
John Raleson	**
John Robenson	**
Jacques Rosseau	

### PHOSPHATE

Oftawa Phosphate Min-ing Co., . . . . Buckingham Anglo-Continential Gua-

### SLATE

Danville Slate Quarry . Richmond St. Francis Slate Quarry ..."

### STONE, GRANITE, MARBLE AND ONYX North Star Mining Co. Buckingham

The state of the s
Central Lake Mining Co.
A. Lomer "
A. 12010C1
Thomas Lyons "
A P Twidale "
1 37 1 111
A. P. Twidale
Inline Laborate "
ottite i falpatitte
Sifroid Simard
Julien Lapointe " Sifroid Simard " Jean Baptiste Tangway. "
Johnson & Loomis Coleraine Laurier Mining Co G. H. Nichols & Co Lennoxville
donnson & Loomis . Coleranie
Laurier Mining Co
1: If Violate & Co. Language villa
G. H. Sienois & G. Leimoxvine
English Fortiand Centent
Co Montreal
Out to 12 months of the Control of t
30St.FrangoisXavier st.
Irwin Hopper & Co, "
30St.Francois Navier st.
SWACT THE WAXAATTEL SC.
Joseph Valliere Robertson Station Pierre Chateauvert St. Alban
Pierre Chateauvert st Alban
Damase Naud
Daniase valid
L. Perrusse
Engago Diegral Soult An Popullat
L. Perrusse Engene Dicard Sault An Recollet
William Dieard
Harmidas Lagasse
A marking Manager I
Carde Bissel
Odile Sagnaw
The sale of the state of the st
Dominion Marble Co. Sherbrooke
Dominion Marble Co. Sherbrooke Moir Granite Co. Stanstead Haselton & Moir
Haralton & Main 0
Haschon & Ston
D. L. Smith Sutton
J. F. Caron TadousacSagnonay
The state of the s
D. L. Smith. Sutton J. E. Caron Tadonsae Saguenay Ring Bros Thetford Mines Lineke, Mitchell & Co
Lucke, Mitchell & Co
Ward & Ross "
Wolfestown Mining Co. Wolfestown
Wolfestown Mining Co. Wolfestown



### LIST OF

# MINING COMPANIES AND OPERATORS

### REPUBLIC OF MEXICO

(SEE ALSO SUPPLEMENTARY LIST, PAGE 482)

### ANTIMONY

LOCATION OF MINE, NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER AND SHIPPING POINT. USED, AND NAME OF MINE SUPERINTENDENT.

Nieyes, ......Zacatecas Ry, Jimenez 434 (90 miles).

"Zacatecas Basilio Moreno, 42 Calle de la Caja, Zacatecas, Mex., \$20,000. Santo Niño. Antimony. Shaft and open pit, 30,000 tous; free

### COPPER

LOCATION OF MINE. RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK. NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TORS OF 2,000 POUNDS, KIND OF POWER USED, FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Santa Rosalia (Lower Cal.) Compagnie du Boleo, Paris, France, 5 Cité d'Outm. Chas. Laforgue, mgr. Cap. 8tk, \$2,400,000. Boleo. Ry, 685.

### GOLD AND SILVER

LOCATION OF MINE RAILWAYS WATER ROUTES AND SHIPPING POINT.

Carbo

Catorce San Luis Potosi Ry, Vanegas 436 (20 Ry. Van miles).

Corralitos Chihuahua Ry, San Jose 434,

El Grande . . . . . . . . . . . . . Sonora P. O. and Ry. Santa Ana 685.

El Potrero.....Chilmalma (P. O. Jesus Maria) Ry. Chilmalma 434 (250 miles).

Guadalupe Calvo (P. O. San Jose) Ry. Chlimalma 434. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine, Kind of Ore, Kind of Mine, Annual Output in Tons of 2,000 Pounds, Kind OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERISTENDENT.

Compania Minera Anonima de Concepcion y Anexas, San Luis Potosi, Mex., 2a Calle de Maltos. Carlos Diez Gutierrez, prest.; Panlino F. Almanzo, seey, and treas.; Chas. E. Hoffman, nggr. Concepcion Prisca, gold, silver and lead. Shafts, tunnels and slopes, 80,000 tons; refractory and free; steam and horse; 40 stamps. Luis Barragan, supt., Valenciana, San Jose.

Compania Minera del Refugio, Mateas II. Soberon, prest.; Adolfo Oldoerp, mgr, and supt. La Laz, sliver. Tunnel, 5,000 tons; free; horse; patho process. Dolores, silver. Shaft and Tunnel, 1,500 tons; free; horse; patho process.

Compania Union Catorceña. Pedro de la Maya, prest, and treas.; Bernobe Rocha, secy.; Joaquin Barrero, mgr. Cap. stk. (syndicate). San Augustin, silver. Shafts, tunnels and cuts, 2,340 tons; refractory; horse. Isabel Carillo, supt.

Gregorio de la Maza. Cap. \$1,000,000. Negociación de Santa Ana, silver. Tu-tons; free; steam and electricity; patio process. Francisco M. Coghlan, supt. Tunnels and shafts, 15,000

Corralitos Mining Co., New York City, 54 Exchange pl. Solon Humphreys, prest.; S. Newton Smith, seey, and treas.; Britton Dayls, mgr. Cap. sik, \$1,500,000. Candelaria, San Pedro, Leon, Congress, and others, gold, silver and lead. Slopes, 5,000 tons; refractory; steam; concentrator and leaf. Bonie, supt.

El Plomo Gold Mining Co., New York City, 29 Broadway. H. Cummins, prest.; John C. Rogers, seey.; Geo. B. Roberts, mar. Cap. 8tk, 81,250,000. (Golerado, El Plomo and Blanco, gold, silver and lead. Shaft and tunnel; refractory; Steam; smeller.

El Potrero Gold & Silver Mining & Milling Co., Chicago, Ill., Union Stock Yards. N. Cochran, prest.; J. C. Denison, seey, and treas, a. S. Gates, mgr, and supt. Cap. stk, \$1,000,000. Guadalupe, gold and silver. Shaft and tunnel, Isooo tons; free; steam; 20 Stamps.

San Jose Consolldated Gold & Silver Mining Co., Chicago, Ill., 920 Chamber of Commerce Bidg. Wm. G. Reeve, prest; Edgar B. Tolman, seey.; Austin B. Reeve, treas.; G. Freeman, mgr. Cap. 8tk, \$5,000,000. Forty-three claims, gold and silver; steam and water (developing).

### GOLD AND SILVER-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTFUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDENT.
TOWN AND STATE.	OF TOWER COED, STARE MILLS, LIC., AND MARK OF MINE DELEMINIEMENT
Guanacevi Durango Ry.Jimenez434(180m.).	raza, supt.
	Compania Minera La Sirena Mexico, 8 Calle de San Francisco, Mex Martin del Castillo, prest; Manuel Viyanco, secy; Antero Munguri, treas; Canuto Bolivar, mgr., Guanacevi, Durango, Mex. Cap. stk. \$800,000. La Sirena, gold, silver and lead. Shaft, 20,000 tons; refractory; steam; 2 Chili mills. Juan B. Duarte, supt.
Guaymas Sonora Ry, 552.	Gulf Gold Mining Co., Akron, Ohio. Cap. stk. \$2,600,000. Santa Marta, gold. Tunnel; free; steam.
Inde	Compania'de Guadalupe. Guillermo I. Benton, prest, and supt.: Miguel M. Samper, secy.; Andres Avila. treas., Cap. stk. \$15,000. Guadalupe, silver and lead. Shaft; smelting; hand.
**	Garabatos Mining & Smelting Co., Joliet, Ill., 63 Young Block. J. Russell Burks, prest.; Geo. J. Munne, seey.; D. Robertson, treas, and mgr. Cap. 81k. \$2,000,000. Garabatos, gold, sliver and lead. Shaft, 6,000 tons; refractory; steam. Frank Her. supt.
	Inde Mining Co., 4 E. First st. Henry R. Wolcott, prest.; P. S. Bailey, secy, and treas.; E. M. Parrish, mgr. and supt. Cap. stk. \$500,000. Mina del Agua, Silver. Shaft; refractory; steam and water.
*	Negociacion Minera del Cabalto. William Benton, Corpus Christi, Tex., prest, and mgr.; Juan B. Baca, Jimenez, Chihuahua, Mex., seey, and treas. El Cabalto, silver, lead, carbonates. Shaft and tunnel, 25,000 tons; smelling, free; hapd. W. I. Benton, supt.
40	Tepocates Mining & Smelting Co. C. B. Zeek, seey, and treas.; D. W. Farris, gen. mgr. Los Machos, silver and lead. Shaft, 1,200 tons; refractory. Ouirino Corrilla, supt.
Jesus Maria Chilmahua Ry. Chilmahua 434 (250 miles).	Santa Eduviyes Mining & Milling Co. H. A. W. Tabor, prest.; C. J. Rowell, seey.; A. S. Weston, treas.: J. C. Carrera, mgr. Cap. stk. \$1,000,000. Santa Eduviyes, gold and sliver. Tunnels, 10,000 tons; free: steam and water; 25 stamps.
Magdalena. Sonora Ry. 685.	Sonora Gold & Silver Mining Co., Cleveland, Ohio, W. M. Williams, prest.; H. W. Gebaur, seey.; J. S. Mogne, treas.; J. S. Morgan, ngr. Cap, stk. \$10,000. Homerie, Cleopatra, Josephine and Isabel, gold. Shaft, tunnel; free; steam; 10 stamps. E. Kipp, supt.
Majistral Durango (1', O, El Oro) Ry, Jim- enez 434 (130 miles).	Lustre Mining Co., Pittsburg, Pa., 95 Flifth av. H. D. Gamble, prest.; W. J. Miller, seey, and treas. Cap. stk. \$20,000. Cochiera and Colorado, gold and sliver. Shart, 6,000 tons; free, refractory; steam; 5 stamps and pulverizers. J. A. Reed, supt.
Matehuala SanLuisPotosi Ry, 436.	Compania Minera La Paz Matchuala, 2 Calle del Moro, Sun Luis Polosi, Mex. Anastasio Moreno, prest.; Enrique Barrenecher, seey, and treas.—Santa Maria de La Paz and others, gold, silver, lead and fron. Shafts, 50,000 tons; Free; steam. Guillermo Dingwul, supl.
**	Santa Rita Mining Co. W. B. A. Dingwall, prest, and mgr.; Jose Peregy Perez, treas. San Silvestre, La Colorado and Santa Rita, silver, lead and iron. Tunnel and shaft, 3,000 tons; refractory. Jesus Pedro Flores, supt.
Moris Chihuahua Ry. 434.	El Socorro Mining & Milling Co., Cincinnati, Ohio, Room 410 Neave Bldg. Wilson E. Griffiths, prest.; Julson W. Breed, seey, and treas; Jav. F. Mason, ingr. and supt. Cap. 8tk, 8100,000. El Socorro, gold and sliver. Shatrs and tunnels, 14,000 tons; free; steam; init.
	La Dura Mining & Milling Co., Cincinnati, Ohio, Room 410 Neave Bldg. Wilson E. Griffiths, prest.; Judson W. Erced, secy. and treas; John R. Patton, mgr. and supt. Cap. stk. \$125,000. La Dura, gold and silver. Shafts and tunnels; free; steam.
Ojocaliente Chilmalma Ry. 434.	Roberts & Broxton, El Paso, Texas. Fermosa, silver and lead. Shafts; free; hand. A. C. Broxton, Supt.
	San Felipe de Jesus Mining Co., City of Mexico, Calle Gante 14. Samuel B. Knight, prest.; Jose D. Vargas, seey.; A. C. Voung, treas.; Francisco Rule, mgr, and supt. San Felipe de Jesus, gold and silver. Shaft, Lyou tons; refractory; horse
Parral Chihuahua Ry. Jimenez 434 (90 miles).	Compania Minera de El Fajo, Mex. Francisco Gomez, prest.; Lie Justo Prieto, secy.; Miguel Chavez, trens.; Victor Esperon, mgr., Syndiene, El Fajo y Anexas, silver and lead. Shafts, tunnels and slopes, 3,500 tons; refractory and free. Jose Calles, supt.
** **	Cia Minera de San Gregorio, 2a Calle de Guadalupe. Lie Miguel Rodriguez, prest, and mgr.; Ricardo Rodriguez Dominguez, secy.; Ricardo Rodriguez Chavez, treas. Cap. stk. \$50,000. San Gregorio, silver. Shafts and tumels 4,200 tons; free; steam. Ricardo Martinez, supt.
**	Hidalgo Mining Co., Pittsburg, Pa., Westinghouse Bldg. John H. McKelvy, prest.; Samuel E. Gill, seey. and treas; Jas. I. Long, ngr. Cap. stk. \$1,000,000. Philadelphia, Presena, Salto, etc., silver and lead. Shaft; refractory; steam; mill.
	Compania Minera San Patricio, 2a Calle de Coronado. Francisco Comez, prest.; Victor Esperon, secy.; Miguel Domingaez, treas.; Juan Almanzan, mgr. Syndicate. San Fatricio, silver and lead. Shafts and tunnels, 3,000 fons, refractory, mules. Simon Armendairz, supt.
	Negociaelon Minera de Veta Grande, Federico Stallforth y Hermano, owners. Veta Grande, and El Verde, gold and silver. Shafts and tunnels: 20,000 tons; free; steam; 30 stamps. Carlos Seifert, supt.
	North American Mining Co., New York City, 60 Broadway, Room 428. D. T. Alger, prest.; A. C. McMeelan, seey;; C. J. Luce, treas.; W. H. Kingsbury, ingr. Cap. 8tk. \$2,500,000. San Cristobal and San Rafael, silver. Shart and slope, 3,000 tons; free; forese; mill. T. S. Kingsbury, supt.
	John F. Ramsden. San Francisco and La Morena, silver. Shaft, 5,600 tons; free; horse,
44	J. F. Seiberling. G. C. Beckmann, mgr. Cap. \$150,000. Alfarena and Viscaina, silver. Slope, 10,000 tons; refractory; steam.
**	Federico Stallforth & Bro. San Francisco del Cerro Colorado, gold and silver. 1,500 tons: mule. Clement Kuchle, supt.
-5	K. Gener, sapt.  J. F. Townsend, Canal Dover, Ohio. Cap. \$50,000. Quebradillas, silver. Shaft; refractory; steam. T. R. Willard, supt.

Piedra Larga "Chilmahna Le Mars & La Dura Mining Co., Le Mars, Iowa. G. C. Maelagan, prest.; E. D. Chossell, seey.; J. W. Myers, treas.; J. D. Knotts, mgr. and supt. Cap. stk. \$1,000,000. La Dura. Shaft; free; steam; 10 stamps.

### GOLD AND SHLVER-(CONTINUED)

LOCATION OF MINE, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, STAMP MILLS, ETC., AND NAME OF MINE SUPERINTENDEN"

os. ... Zacatecas Compania Minera Anonima de Candelaria y Anexas, San Luis Potosi, Mex., 3a Calle de Maltos No. 1. Ry, La Honda 434 (25 miles). Edward Meade, prest, and trease, Francisco Cosio, seasy, Cap. 8tk, 800,000. Candelaria, gold and silver. Slaft, 4,000 tons; free; steam, horse; patho process. Carlos Falancon, supt.

Guadalupe Mining & Milling Co., Chicago, Ht., 225 Dearborn St., Wm. H., Fuller, prest.; W. W. Watson, seey.; B. A., Watson, treas.; Isaac N. Miller, mgr. and supt. Cap. stk. \$1,000,000. Guadalupe, gold and silver. Slatt; free.

Morada Jaiisco P. O. Rosa Morada) Ry. San Blas 552. Rosa Morada (P. O. Ros

Ramos., San Lais Potosl. Ramos Mining Co., Milwaukee, Wis., U. S. A., 425 E. Water St. C. A. Read, prest; J. C. Iversen, seey, and treas; Jass F. Flym, mgr. and supt. Cap. 84k, \$600,000. Twenty-eight mines, silver and copper. Shafts; refractory, steam.

Ry.San Jose 434 (90 m.)

Santiago Mining & Milling Co., Oakhaul, Cal., U. S. A., J. S. Burpee, prest.; L. T. Farr, seey.; W. W. Whitman, treas, J. A. Chesmitje, myr, and supt. (ap. sik. \$100,000). La Reforma, gold and sliver. Shaft and lumel, Jacob tons; refractory and free; water; mill. Alme in Tepic Ter.). Mungenberger, Cap. \$100,000, Santa Domingo and Bismark, gold, silver and lead. Tunnels and shaft, 1,000 tons; refractory; horse. Fernando Sortero, supt.

Salinas

Tomas & Cleofas Salazar. Mexico, silver and lead. Shaft and tunnel, 300 tons. Alberto Trujillo, supt.

San Jullan Mine Chihuahua (23) Ry. Jimenez 434 (230

imas "Nuevo Leon Rosario Mining Co., Dallas, Tex., U. S. A., Bankers' & Merchants' National Bank. Gen. Geo. F. Altord, prest, Col. Win. J. Keller, seeg.; Juan Weber, Treas; Frof. H. Ph. Ebritardt, nigr., and supt. Cap. st. 82,630,000. Rosario, stlver and lead. Shaft and slope; refractory developing.

San Pablo Pablo ...... Sonora Ry, and P. O. Bisbee, Ariz., 20 (105 mHes). Teuta Duras Mining & Milling Co., Cherokee, Iowa, U. S. A., John Clarkson, prest, A. C. Hobart, seey, and treas.; G. P. Perley, mgr. Cap. stk. \$26,000. Tenta Duras, gold and silver. Tunnel; free; steam; mill developing).

Santa Barbara.Chilmalma P. O. Parrab Ry, Jim-enez 434, (60 miles).

San Lafs Mfuling & Reduction Co., St. Louis, Mo., Room 23 Turner Bidg. Gains Paddock, prest.; F. A. Banister, seey.; M. A. Demoss, trens.; F. V. Layton, nigr. and supt. Cap. 8tk, \$4,000,000. San Padd and others, gold, sliver and lead. Tunnels and islants, \$5,000 tons; refractory; steam; crusher. Brazon y Cunningham. Cap. \$15 000. El Cabrestante, silver and lead. Tunnel, 1,000 tons; refractory; steam; mill. J. J. Brazon, supt.

Mexican Santa Barbara Mining Co. San Francisco del Oro, gold and silver. Shaft, 4,000 tons: refractory:

Sombrerete, Zacateeas Ry,Fresniffo 434 (90 m.).

Sierra Mojada . . Coabuila Consolidated Kansas City Smelting & Rething Co., Kansas City, Mo., U. S. A., 23t Evchange Bldg. A. R. Meyer, prest, and treas; R. b. Everett, seey; H. Huher, mgr. (4gp. 48t, \$250000), San Jose and San Satvador, silver and lead. Shart, 6,0000 tons; refractory; steams furnace, F. Escher, sup-

San Martin Mining Co., New York City, 15 Wall st. J. L. Carnaghan, prest.; Henry Bradstreet, secy, and treas. Cap. stk. \$1,500,000. Thirty mlnes, gold and silver. Shafts and tunnels; refractory.

Victoria Rv. 436.

Sultepee , Mexico Hidaigo Smelling Co., Milwankee, Wis., I., S. A., 468 Milwankee st., John E., Burton, prest, and freas.;
Stoddard H., Martin, seey.; Chas. E., Lathrop, mgr., Cap. sik. S.509,088. La Cruz, Ocampo and Cerro
Fartola, silver. Tunnel; refractory; water, smelter, 3,500 milet. Tamaulipas La Fortuna Mining Co., Dallas, Tevas, U. S. A., Pankers' & Merchants' National Bank. Geo. F. Alford, prest.; Win. J. Keller, seey.; Juan Weber, tre s.; H. Ph. Ehrhardt, ingr. and supt. Cap. stk. \$2,30,000. La Fortuna, Saint Cristo and Don Julio, silv et and lead. Shaft, burnel and slope; refractory

Zacatecas Ry. 434.

Zacatecas Compania Anonima de Parisima de Napoles y Anexas. Federico Luis y Diaz. prest.: Lie Mariano Sanchez, secy. Benjamin Comez Gordon, treas. Cap. 81k, 875,000. Estrella, Purisima Santa Marianat, Bodega, Fortuna and Tesero, silver. Shafts and tunnels, Soutones, Santhung, horse. Ambrosio Arauza.

Cia/Puricima de los Compadres, Guadalupe, Zacatecas. Cleofas Galyan, prest.: Francisco Camacho, secy.; Edmundo von Giberen, treas. Cap. sik. \$90.00. Puricima de los Compadres, silver and lead. 29 tons. tumels: horse. Genaro Palaelos, supt.

(No town given) Sonora P. O. and Ry, Bisbee, Ariz., V. S. A., 20,

Negociacion Minera' de Sanceda, Vicente Vrizar, prest.; Jesus Salmeron, secy.; Maximo P. Lamicq, treas, and mer. San Acaclo and Anexas, silver. Shafts and tunnels, 20,000 tons; refractory; steam, M. Molina, supt. Valenzuela Consolidated Land and Mining Co., San Francisco, Cal., 431 Califorma st. Cesar Bertheau, prest; A. Everett Ball, seey.; Angloc'alifornian Bank, San Francisco, Cal., treas.; Julius Koeblg, mgr. Cap. stk. 82,000,000. Valenzuela, San Patrico and San Felippe, gold and sliver. Shaft and tunnel; free, Sannel T. Curtis, supt.

(No town given). Sonora P. O. and Ry. Nogales, Ariz., U. S. A., 26, 685.

Sonora Development Co., Ltd., New Orleans, La., U. S. A., Morris Bildg. Chas. Noel, prest.; E. J. Gueringer, seev, and treas; H. B. Carroll, mgr. Cap. stk. \$50,000. Plata Reina, silver. Shaft and lunnel; free. A. Hoover, supp.

### **IRON**

LOCATION OF MINE RAILWAYS, WATER ROUTES AND SHIPPING POINT. Town

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER USED, BLAST FURNACES, ETC., AND NAME OF MINE SUPERINTENDENT.

Durango

Durango Durango Steel & Iron Co., Des Moines, Iowa, Iowa Loan and Trust Bldg. Jas. Callanan, prest.; Geo. Cane, Saker, seey.; A. Holland, treas.; J. S. Met anghan, gen. mgr. Cap. 8tk. \$5,000,001. Sierra Mercoda. Shatt and tunnel. 2000 tons; stemn; furnace.

Guanacevi

### LEAD AND ZINC

LOCATION OF MINE, NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF ORE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF AND SHIPPING POINT. POWER USED, SMELTERS, ETC., AND NAME OF MINE SUPERINTENDENT. Town AND

Durango Canuto Bolivar. \$500,000. La Miseria, lead and conner. Shafts. In litigation.

### QUICKSILVER

LOCATION OF MINE. NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, RAILWAYS, WATER ROUTES NAME OF MINE, KIND OF MINE, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KIND OF POWER AND SHIPPING POINT. USED, AND NAME OF MINE SUPERINTENDENT. ANO

Guadaleazar San Luis Potosi Rv. Villar 434.

Ry.Jimenez434(180m.).

Guadaleazar Quicksilver Mining Co., Ltd., London, E. C., Eng., 7 Poultney st. John Merrylees, prest.; Percy W. Furber, seey, and treas.; Robert Mackenzie, mgr. and supt. Cap. stk. §2,000,000. La Trin-idad y Anexas. Shaft, tunnel and slope, 1,200 tons; hand; turnace.

### SALT

Location of Mine or Well, Railways, Water Routes and Shipping Point.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, NAME OF MINE, KIND OF PRODUCT, KIND OF MINE OR WELL, ANNUAL OUTPUT IN TONS OF 2,000 POUNDS, KING OF POWER USED, ETC., AND NAME OF MINE SUPERINTENDENT.

Carmen Island, Lower Cal. Carmen Island, Salt Co., Chicago, Ill., 608 Phenix, Bidg. Chas. Miller, prest.; Chas. E. Schauftler, secy. and mgr.; Conrad Einbeck, mgr., Cap., stock, \$1,600,000. Carmen, table and rock salt. Open pit, 35-000 tons. Vincente R. Mexias, spt.

### STONE, MARBLE, GRANITE AND ONYX

LOCATION OF MINE OR QUARRY,
RAILWAYS, WATER ROUTES
AND SHIPPING POINT. STATE. TOWN

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE, NAMES OF OFFICERS, CAPITAL STOCK, Name of Mine or Quarry, Kind of Stone, Kind of Mine or Quarry, Annual Output in Tons of 2,000 Pounds, Kind of Power Used, Stone or Marble Mills, Limekilns and CAPACITY, ETC., AND NAME OF MINE SUPERINTENDENT.

Torreon

Cuaulta....... Morelos | American Rose Garnet Co., New York City, 733 Broadway. Edwin C. Atkinson, prest.; Wm. Niven, ky, 325. | V-prest, and mgr.; Frederick A. Semnan, seey.; George A. English, treas. Cap. 8tk, \$250,000, Mina de Granate de Rosa, rose garnet. Open pit; band; mill.

reon.......Coahuilla Mexico Onyx Quarry Co., New York City, 44 Wall st. Henry McCoy, prest,; W. H. Reynolds, seey, and treas.; David J. Kelley, mgr. Cap. stk. \$500,000. Kelley, onyx. Shaft; horse and hand. W. H. Kelley,

# SUPPLEMENTARY LIST

# MINING COMPANIES AND OPERATORS

### REPUBLIC OF MEXICO

WHOM WE HAVE REASON TO BELIEVE ARE AT POINTS GIVEN, BUT WHO HAVE FAILED TO FURNISH DESIRED DETAILED INFORMATION FOR REGULAR LISTS

# MEXICO

COLD AND SILVER

POSTOFFICE NAME 

NAME POSTOFFICE NAME POSTOFFICE
Francisco M. Coghlam. Catoree
Mexican Ore Co...
Don Enrique Mining Co. Cusimiriachic
Candelaria Mining Co. Duranao
Recompense & California
Mine El Oro
Machs Mining Co... Linde
D.W. Farris. Los Machos
Via Cerro Gordo,
Benoles Mining Co... Maphai NAME
Cla Minera de Sante Fe, Matehmala
Pachuea Silver Mining
Co. Pachuea
Presena Mining Co. Parrai
Edgar G. Tuttle, esq. San Felipe
Ireneo Lopez. San Luis Potosi
El Boleo Copper Co. Santa Rosalie racinuea Silver Mining Co. Pachuca Presena Mining Co. Parral Edgar G. Tuttle, esq. San Feli Ireneo Lopez. San Luis El Boleo Copper Co. Santa Ro Torreon Silver-Copper Mining Co. Torreon

# BLAST FURNACES

### ALABAMA

Name of Company or Individual, Location of Principal Office when Different from Location of Works,

LOCATION,

RAILWAYS, WATER ROUTES

AND SHIPPING POINT.  TOWN AND COUNTY	AAMES OF OFFICERS, PAID-OF CAPITAL STOCK, AND OF FURNACY, AVMBER AND SIZE OF STACKS, ANVAL CAPACITY IN TONS OF 2:00 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.
AnnistonCalhoun Ry. 240, 408, 622.	Woodstock Iron Co. W. G. Ledbetter, prest.; J. W. Stillwell, seey, and treas.; Stephen N. Noble, mgr. Pdup cap. 83,000,000. Woodstock Nos. 1 and 4, charcoal and coke blast, 2 stacks, coke 75x16 feet, charcoal 5w22 feet, 5,000 tons, car wheel and foundry pig. Brands, coke "Anniston," charcoal "Woodstock," Selling agents, Rogers, Brown & Co., Cincinnati, Ohio; C. L. Pierson & Co., Boston, Mass.
Bessemer,lefferson Ry, 408, 612, 351,	De Bardeleben Coal & Iron Co. H. F. De Bardeleben, prest; David Roberts, v.,prest; Andrew M. Adger, seey, and treas; L. W. Johns, supt. Cap. ski, \$10,000,000. De Bardeleben, hot blast, 6 stacks 175, feet, 1 stack 1236 feet, 203,000 tons, coke foundry and forge Iron. Brand "De Bardeleben." Selling agents, Matthew Addy & Co. Cheinnati, Ohlo, and Rogers, Brown & Co. New York City.
Birmingham, lefferson Ry, 183, 240, 351, 408, 422,	The Vanderbilt Steel & Iron Co., G. O. Vanderbilt, prest.; C. A. Meissner, vprest, and mgr.; F. T. Akermann, seey, and treas. Pdup cap. \$150,000. Clara Furnace, coke blast, 1 stack 65x14 feet, 20,000

612, 622.	tons, pig. Brand "Vanderbilt." Selling agents, Rogers, Brown & Co., Cincinnatt, Ohio.
* *	Williamson fron Co. C. P. Williamson, prest.; H. D. Williamson, vprest.; J. B. Simpson, seev, and treas. Pdup cap, 8150,000. Williamson, coke blast, 1 stack 65v44 feet, 20,000 tons, pg. Brand "Williamson." Selling agents, Chamberlain, Turney & Baird, Columbus, Ohio; Hickmann, Consen, Co., Louisville Ky.

Gadsden Etowah Rv. 126, 240, 408, 747.	Gadsden Iron Co. A. J. Crawtord, prest.; T. W. Stewart, seey., treas, and mgr. Cap. stk. \$125,000. Gadsden, charcoal blast, 1 stack 12565 feet, 145000 tons, pig iron. Brands "Stewart" and "Gadsden,"
113. 120, 270, 700, 171.	Gaussien, charcoar mase, a stack (2x05) rece, 14,000 tons, pig from Strands Stewart and Gaussien.
Ironaton Talladega	Clifton Iron Co., T. G. Bush, prest.; Paul Roberts, seey.; C. L. Pierson, treas. Cap. 8tk, \$500,000. Clifton
Ry. 408.	Furnace, 1 stack, car wheel pig iron, Brand "Clifton," Selling agents, Matthew Addy & Co., St. Louis,
	Mo., and Clucinnati, Ohio; C. L. Pierson & Co., Boston, Mass.

Jenifer	Talladega	Jenifer Iron Co., John W. Noble, prest.; W. D. Fildes, seey, and treas.; A. E. Noble, supt. Pdup cap. 820,000. Jenifer, charcoal blast. 1 stack 55x10 feet, 12,250 tons, car wheel pig. Selling agents, Geo. H. Hull & Co. Louisville, Ky.

(P. O. Langdon City) Ry, 463,	46XIP - feet, 11,000 tons, car wheel pig iron. Brand "Langdon." New York; Horsford & Pluemer and W. D. Bennage & Co.	
11 157 to do all		1111 1 1

RoundMountain.Cherokee Ry, 240.	The Elliott Fig. Iron Co., Gadsden, Ala. Round Mountain, charcoal cold blast, 1 stack 46x9 feet, 6,000 tons, pig. Brand "Round Mountain." Selling agents, Rogers, Brown & Co., Cincinnati, Ohio.

Ry. 61, 408, 430,	and treas.; Walter Moore, gen. nigr., J. A. Short, Supt. Pdup cap. \$2,000,000. Lady Ensley and Hat-
	tie Ensley, coke hot blast, 2 stacks 75x17 feet, 80,000 tons, foundry pig. Brand "Lady Ensley."
	Selling agents, Matthew Addy & Co., Cincannati, Ohio, and St. Louis, Mo.
Shelby Shelby	Shelby Iron Co., T. G. Bush, prest.; H. C. Cooper, seey.; W. S. Gurnee, treas.; E. T. Witherby, asst.
Ry. 408.	treas. Cap. stk. \$1,000,000. Shelby, hot blast, 2 stacks 14x60 feet, 40,000 tons, charcoal car wheel pig

		iron. Selling agents, Matthew Addy & Co., Cinemnati, Ohio.	
Tecumseh Ry. 240.	Cherokee	Tecumseh Iron Co. P. N. Moore, prest.; J. W. Dimmick, vprest.; P. B. Warner, seey.; S. J. Fogen, mgr. Pdup cap. \$200,000. Tecumseh, charcoal blast. 1 stack 60x16 feet, 15,000 tons, pig.	
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Trussville	Ierson Trussville Furnace & Mining Co. R. D. Smith, prest, and mgr.; W. L. Smith, seey, and treas. Trussville charcoal blast, 1 stack 65v16 <sup>3</sup> / <sub>2</sub> feet, 36,000 tons, pig. Brand "Trussville," Selling agents. Roger Brown & Co. Cincinnati, Ohio.	P.,

## Woodward Jefferson Woodward Fron Uo. J. H. Woodward, prest.; S. Mathews, secy. Pd.-up.cap. \$1,000,000. Woodward, coke Ry. 408. blast, 2 stacks each 75 (17 feet, 75 000 fons, pig. Brand "Woodward."

### CONNECTICUT

Canaan	Litchfield	Barnum, Richardson Co., Lime Rock, Conn. M. B. Richardson, prest.; C. W. Barnum, vprest.; S. P.
Ry, 116, 312,		Ensign, seey.; P. S. Burrall, treas. Pdup cap. \$200,000. Canaan Furnace, charcoalblast, 3 stacks
		each 32x9 feet, 15,000 tons, pig. Brand "Salisbury."

Kent Litchfield	Kent Iron Co. Donald J. Warner, prest.; Geo. R. Bull, seey.; John Hopson, treas., mgr. and supt. Cap.
(P. O. Kent Furnace)	stk. \$30,000. Kent, hot blast, 1 stack 42x9 feet, 5,000 tons, charcoal pig iron. Brands "Salisbury" and
Rv. 812.	"Kent Iron"

### GEORGIA

t edartown	Cherokee Iron Co. Wm. C. Browning, prest,: J. R. Barber, seev, and gen, mgr.; J. H. Browning, treas.
Ry, 234, 280.	Pdup cap, \$350,000. Cherokee, charcoal blast, 1 stack 60x14 feet, 27,000 tons, foundry pig. Brand
	"Cherokee," Selling agents, Hall Bros. & Co., Louisville, Ky

### ILLINOIS

		J. M. Flower, prest.; Irving T. Hartz, secy., treas, and ingr., Terry
Ry. 42, 383, 585, 26, 135,		California, coke blast, 1 stack 1713x80 feet, 50,000 tons, foundry and
142, 145, 150,	Bessemer pig iron. Brand "Calum	et."

Himols Steel Co., Rookery Bldg. Adams and La Salle sts. Jay C. Morse, prest.; W. R. Stirling and H. S. Smith, w-prests; H. A. Gray, seey.; J. C. Stirling, treas. South, North and Union, hot blast, 14 Stacks, 840,000 tons, Ressenier pig. foundry and mill pig, and spiegel. Selling agents, Pickands, Brown & Co., tenth floor Rookery Bldg.

Catoctin Furnace Frederick

Ry. 42.

### ILLINOIS (CONTINUED)

RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TORS OF 2,000 FOUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.
Joliet	Illinois Steel Co., Chicago, Ill., Bookery Bldg., Adams and La Salle sts., Jay C. Morse, prest.; W. R. Stirling and H. S. Smith, vprests.; H. A. Gray, seey.; J. C. Stirling, trens. Jollet, hot blast, 3 stacks, 185,000 tous, Bessemer, toundry and mill pig and spiegel. Selling agents, Pickands, Brown & Co., tenth floor Rookery Bidg., Chicago.
South Chicago Cook Ry. 42, 383, 585.	Iroquois Furnace Co., Chicago, Ill., 638 Rookery Bldg. Hay Walker, prest.; Charles F. Forster, seey, and gen. mgr.; T. H. Given, treas.; F. M. Kerman, supt. Pdup cap. \$360,000. Iroquois, coke blast, i stack sowtf feet, sound fone, plg. Branks 'Iroquois', "Sterling Scotch" and "Peerless." Selling agents, Forster, Backman & Hawes, Chicago, Ill., 638 Rookery Bldg.

### INDIANA

Brazil	Central Iron & Steel Co. Major Collins, prest, and gen. mgr.; A. S. Faiber, acting seey.; John H. Lewis, treas. Cap. stk, \$150,000. Brazil, hot blast, I stack 13x60 feet, 12,000 tons, pig iron. Brand "Brazil."
Vigo Indian: Ry. 146, 170, 256, 563,749	Vigo Iron Co., Terre Haute, Ind. A. J. Crawford, prest.; J. P. Crawford, secy., treas, and supt. Pdup cap, 850,000. Vigo, coal blast, 1 stack 62° x13 feet, 12,000 tons, pig. Brand "Vigo."
	KENTUCKY

** **	Means & Russell Iron Co. John Russell, prest.; C. W. Means, seey.; Ashland National Bank, treas.; W. B. Scaton, mgr. and supt. Pdup cap. \$280,000. Bellefonte, charcoal blast, 1 stack 34x10½ feet, 4,500 tons, pig. Brand "Bellefonte Foundry Pig Iron." Selling agents, Bacon, Flato & Co., Cincinnati, Ohio; Adams, Watkins & Co., Louisville, Ky.
*	Norton Iron Works, Chas. H. Greene, prest.; Thos. M. Adams, v-prest.; Edw. E. Senton, seey.; John Russell, treas.; Geo. Carp. supt. Pdup cap. \$728,000. Norton, coke blast, 1 stack 65th feet, 40,000 tons., big. Brand "Norton." Selling agent, P. B. Warner, Cincinnati, Onlio, 18 Johnston Bidg.
Grand RiversLivingston Ry, 439.	Grand Rivers Co., Boston, Mass., 64 Federal st. A. Blood, prest.; Thos. W. Lawson, vprest, and mgr.; Fred Joy, see; J. M. Searle, supt. Pdup cap. \$3,000,000. Grand Rivers, charcoal blast, 2 stacks each 6xx13° feet, 40,000 tons, pig. Brand "Grand Rivers."
Middlesboro Bell Ry, 371, 408,	The Watts Steel & Iron Syndicate, Ltd. Edmund H. Watts, prest.; Robt. Andrews, seey.; Edgar and Frank Watts, managing directors; Geo. L. Reis, mgr. Pdup cap. \$1,250,000. Watts, coke, hot blast, 2 stacks 75x17 feet, 80,000 (ons. pig. Brand "Watts."

Ashland .......Boyd Ashland Coal & Iron Ry. Co. Donglas Putnam, prest, and gen. mgr.; John G. Peebles, v.-prest.; Robt. Peebles, sery.; E. C. Means, supt. Ashland, coal and coke blast, 2 stacks each 62x16 feet, 40,000 tons, pig. Brand "Ashland."

### MARYLAND

Baltimore . . . . Baltimore Bickney Iron Co., 11-8, Gay st. Geo. H. Stickney, prest.; Wm. Harvey, seey.; Chas. W. Klipper, mgr. 528, 577, 894. Cap. stk. \$100,000. Blast furnace; 2 stacks 50x11 feet, 0,500 tons, charront pig from Brand "Stickney From." Selling agents, Reed, Stickney X Co., 11-8, Gay st., Baltimore, Md.

Catoctin Mountain Tron Co. Thomas Gorsuch, prest, and mgr.; Harry P. Gorsuch, seey, and supt.; Geo-Honck, treas. Deborah, coke blast, 2 stacks 5ax11°2, and 32x1 feet, 14,000 tons, pig. Brand "Catoctin." Selling agents, L. K. R. Wester & Co., Philadelphia, Pa., 25°8. Fourth 8:

Union Iron Co. Austin Burt, prest.; Wm. Gerhauser, secy., treas, and mgr. Pd.-up cap. \$200,000. Union, charcoal blast, 1 stack 46x10 feet, 15,000 tons, pig. Brand "U. I. Co., Det."

		relanguagence, is to rester to our rando quint, rue, so or control of
1	duirkirkPrince George's Ry. 42,	Chas, E. Coffin. Muirkirk, hot blast, 1 stack 36x8/3 feet, 7,000 tons, car wheel and ordnance charcoal pig- iron. Brand "Muirkirk." Selling agents, C. L. Parson & Co., Boston, Mass.; A. W. Howe, 607 Drexel Bldg., Philadelphia, Pa.; Robinson & Orr, Pittsburg, Pa.
		MICHIGAN
1	hetroit	Detroit fron Furnace Co., foot of Meldrum st. James McMillan, prest.; Hugh McMillan, vprest.; Ernest C. Wetmore, seey, and mgr.; Wm. C. McMillan, freas. Cap. stk. \$25,0000. Detroit, hot blast, charcoal, 1 stack fly3o feet, 18,000 tons, Lake Superior charcoal pig iron. Brand "D. I. F." Selling agents, W. F. Jarvis & Co., Newberry Bldg., Detroit.
		Gaylord Iron Co., foot of Iron 8t. Clas. A. Kent, prest.; Wm. M. Gaylord, vprest. and treas.; Frank B. Gaylord, sey, and supt. Cap. stk. \$200,000. Gaylord, elosed top blast furnace, 1 stack 5689½ feet, 13,000 tons, charcoal pig Iron. Brand "G. L. Co. Det."
		The Peninsular Iron Co., foot of Belleview av – Theo, H. Eaton, prest.; Robt. Lutes, vprest.; Solon Burt, seey., treas, and ugr. Pdup cap. \$290,000. Peninsular, charcoal blast, 1 stack 42x9½ feet, 12,000 tons, pig. Brand "Peninsular."

Elk RapidsAntrim Ry, 152.	Elk Rapids Iron Co. N. K. Fairbank, prest.; N. H. Noble, v-prest, and mgr.; E. S. Noble, seep, and treas, Pd-up cap, \$600,000. Elk Rapids, charcoal blast, I stack fox10½ feet, 25,000 tons, pig. Brand "Elk Rapids," Selling agents, M. A. Hanna & Co., Cleveland, Ohio.
FruitportMuskegon	Spring Lake Iron Co. J. M. Bean, prest.; C. F. Itsley, vprest.; J. C. Ford, secy, and mgr.; S. Marshall,

Hy. 152.	"Spring Lake."
Harvey Marquette Ry. 150, 151.	Northern Furnace Co., Marquette, Mich. J. M. Longyear, prest.; H. M. Kaufman, V-prest.; J. G. Reynolds, seery, J. M. Wilkinson, freus; F. B. Spear, ingr. Northern, charcoal blast, I stack 50x10 <sup>3</sup> spect, 20,000 tons, ear wheel pig. Brand "Northern." Selling agents, M. A. Hanna & Co., Cleveland, Observable, Programmer Co., 1987, pp. 1987.

Ishpeming Marquette Ry, 150, 229.	Deer Lake Company, W. H. Rood, prest., treas, and mgr.; J. N. St. Clair, seey. Deer Lake, charcoal blast, I stack Sy4, I stack Sy49 feet, 12,000 tons, charcoal pig iron. Brind "Deer Lake." Selling agents, Clair Many Action Colored III.
	Chas, Himrod & Co., Chicago, Ill.

### MICHIGAN-(CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual, Location of Principal Office when Different from Location of Works, Names of Officers, Paid-up Capital Stock, Kind of Fuenace, Nember and Size of Stacks, annual Capacity in Tons of 2:00 Pounds, Nature of Output, Rands, and Selling Agents.
TOWN AND COUNTY.	
Ishpeming Marquette	Chas. H. Schaffer, W. J. Ellson, supt. Cap. \$30,000. Excelsior, charcoal blast, 1 stack 50x9 feet, 10,000 tons pig. Proud "Example Property" Solling agents, Win T. Largis Defrait Migh: Chas. Hingard

- (Continued.) tons, pig., Brand "Excelsior Farnace." Selling agents, Wm. T. Jarvis, Detroit, Mich.; Chas. Himro & Co., Chicago, Ill.
- Marquette IX, Marquette Carp River Furnace Co., Detroit, Mich. Hiram A. Burt, prest.; Theo, H. Eaton, v.-prest.; Solon Burt, 800, 100, Carp River, charcoal blast, 1 stack 47 2x10 (cct, 12,000 tons, pig. Brand "Carp." Selling again, Solon Burt, Detroit, Milch.
- Newberry Ry, 229, Luce Newberry Furnace Co. Hugh McMillan, prest; W. U. McMillan, v. prest; Claude W. Case, seey and mgr.; Ry, 229, W. H. Anderson, treas. Pd. up cap. \$145,250. Newberry, charceal blast, 1 stack 52x10 feet, 26,000 tons, pig. Brand "Vulent," selling agents, Win. F. Jarvis & Co. Brotin, Mich.

### MINNESOTA

Duluth St. Louis	West Duluth Furnace Co., Chicago, Ill., Rookery Bldg. Charles Himrod, prest.; John Crerar, vprest.;
Ry. 143, 229, 230, 293,	
529, 721,	West Duluth, coke blast, 1 stack 75x17 feet, 45.0 pt tons, pig. Brand "West Duluth."

### MISSOURI

- Midland ..., Crawford Midland Blast Furnace Co., St. Louis, Mo., 11 Olive st., Wm. H. Lee, prest.; E. A. Hitchcock, v. prest.; E. F. Turner, seey.; B. B. Rengam, supl., Pd. up cap. \$500,000. Midland, charcoal blast, 1 stack 55x10 feet, 18,000 tons, piz., Brand & Midland.
- 8t, Louis . . . . 8t, Louis Jupiter Furnace Co., 25 Laclede Bidg. D. E. Garrison, prest. O. W. Meysenburg, v-prest.; W. O. Gar Ry, 135, 145, 150, 450, 520, 784. Seev. and treas. Pd. up cap. 850,000. Jupiter, coke blast, 1 stack 75×20 feet, 70,000 tons, pig. Brand "Jupiter,"

### NEW JERSEY

- Hackettstown, ..., Warren Warren Iron Co. John P. Jones, prest.; John R. Bennett, mgr. Warren, anthracite and coke blast, 1 Stack 56x14 feet, 15,000 tons, foundry pg. Brand "Warren."
- Aersey City . Hudson Passare Zine Co. Wm. R. Brown, prest.; Chas. B. Squier, seey, and treas.; F. C. Squier, mgr.; Fritz Gleinn, Ry, 118, 550, 560, 560, 560. Squier, Squier,
- Oxford . . . . Warren Oxford Iron & Nail Co., New York City, 52 Wall st. Theodore Sturgis, prest., John I. Blair, v.-prest.; Edmind T. Lukens, seey, and m.g.; A. P. P. Obb, treas. Pd. ap. eap. \$1,080,000. Oxford Iron Co., anthractic hot blist, I state ExitY, feet, 1,8000 tons, rolling full from
- Phillipsburg .... Warren Andover Iron Co., Philadelphia, Pa., 290 S. Third st. John R. Fell, prest.; Chas. Gilpin jr., seey, and treas.; Jos. C. Kent, supt. Cap. stk. \$1,000,000. Andover Iron Works, hot blast, 3 stacks 75x17 feet, 35,000 tons, pig iron. Brand "Andover," seiling agents, J. Tatnail Lea & Co., 400 Chestmit st., Philadelphia.
- Port Oram. . . . Morris Joseph Wharton, Philadelphia, Pa. Edward Kelly, mgr. Wharton, hot blast, 1 stack 15x75 feet, 25,000 tons, foundry and forge pig iron, Brand "Wharton," Selling agents, H. W. Adams & Co., 5a Pine st., New York City.
- Stanhope Ry, 200.

  Sussex Musconeteong Iron Works., Philadelphia, Pa., 237 S. Third st., John R. Fell, prest., H. H. Wilson, sery, and treas.; I. H. Pardec, mgr. Musconeteong, charcoal, 2 stacks stoy, 20 and 70x48 feet, 55,000 tons, pg. Brand "M. I. W." Selling agents, Crocker Bros., New York City, 32 Clift st.; J. M. Pullman, Philadelphia, Pa., 238 S. Third st.

### NEW YORK

- Chatham ..., Columbia Chatham Furnace Co. C. S. Whitney, prest., treas, and ngr.; H. P. Whitney, v-prest.; L. Mallory, seey, and supt. Pd-up cap. \$80,000. Chatham, charcoal blast, 1 stack 3332 feet, 6,000 tons, pg. Brand chatham."
- Crown Point .... Essex Crown Point Iron Co. Chester Griswold, prest; H. M. Olinstead, seey, and treas.; A. L. Imman, gen, mgr., Ita-in cap. SL500,000. Crown Point, authracite and coke blast, 2 stacks 5 ox75 5 and 6 ox 16 feet, 5,0,000 tons. Bessemer pg. Brand \*Crown Toint.\* Selling agent, F. J. Dommiek, New York (iv., 21 Cort

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... Trumbull Ry. 503, 564, 589, 592.

and Pittsburg, Pa.

	NEW YORK—(CONTINUED)
LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company of Individual, Location of Principal Office when Different from Location of Works, Names of Officers, Paid-up Capital Stock, Kind of Furnace, Number and Size of Stacks, Annual Capacity in Tons of 2,000 Pounds, Nature of Output, Brands, and Selling Agents.
Port Henry Essex Ry, 213.	Port Henry Furnace Co. G. R. Sherman, prest.; W. C. Witherbee, vprest.; H. B. Wiliard, seey, and treas.; N. M. Langton, supt. Pdup cap. \$100,000. Port Henry, charcoal hot blast, 2 stacks each oxide feet, 40,000 tons, Bessemer pig. Brand "Port Henry." Selling agents, Witherbee, Sherman & Co., New York City, 46 Wall st.
Saranae	Chateangay Ore & Iron Co., Plattsburg, N. V. Smith M. Weed, prest; F. J. Dominick, v-prest; A. L. Inman, seey, and mgr; H. M. Ohusied, trens; M. L. French, asst. mgr. Cap. sik, \$1,500,000. Standish, blast, 1 stack 60v12 feet, 12,000 tons. Brand "Chateangay," Selling agent, F. J. Dominick, New York City, 21 Cortlandt st.
Tonawanda Niagara Ry. 501, 503.	Tonawanda Iron & Steel Co. Wm. A. Rogers, prest, Archer Brown, v-prest, Geo. G. Hamilton, seev, Wm. A. Gamble, trens.; W. B. Kerr, supt. Pdup cap, \$25,000. Niagara, coke blast, 1 stack 76x18 feet, 95,000 fons, foundry big. Braud "Niagara." Selling agents, Rogers, Brown & Co., Boston, Mass., Buffato, N. V., and Philadelphia, Pa.
	NORTH CAROLINA
Greensboro Guilford Ry, 98, 622.	North Carolina Steel & Iron Co. J. A. Odell, prest.; D. W. C. Benbow, vprest.; C. D. Benbow, seey, and treas.; J. D. Kase, mgr. and supt. Pdup cap. \$267,200. Carolina, charcoal blast, 1 stack 70x16 feet 35,000 tons, pig. Brand "Carolina."
ощо	
Betlaire Belmont Ry, 42, 55, 171, 175.	Bellaire Nail Works, J. R. McCortney, prest.; A. B. Carter, seey, and treas. Cap. stk. \$750,000. Bellaire hot blast, 1 stack 75x16 feet, 80,000 tons, Bessemer pig from. Brand "Bellaire."
	The Clare Iron Co., Portsmouth, Ohio. J. D. Clare, prest, and treas.; J. H. Simmonds, vprest.; E. H. Clare, seey, and supt. Pdup cap. \$100,000. Bloom, charcoal, 1 stack 34x10 feet, 3,000 tons, pig. Brane, "Beloin," Selling agent, J. D. Clare, Portsmouth, Olilo.
Campbell Lawrence Ry. 156.	The Campbell Iron Co. John H. Moulton, prest, and secy.; John W. Campbell, vprest, and ugr.; J. H. Campbell, treas. Pdup cap, \$100,000. Mt. Vernon, charcoal blast, 1 stack 35x12 feet, 3,000 tons, pig Brand "Mt. Vernon." Selling agents, Bacon, Flato & Co., Cheinhard, Oh.

Canal Dover Tuscarawas The Penn Iron & Coal Co. J. P. Burton, prest.; H. C. Davis, v.-prest.; H. C. Ream, seey.; S. W. Croxton, reas and mgr.; Class. Pifer, supt. Pd.-up cap. \$200,000. Dover, blast. 1 stack 66x16 feet, 30,000 tons, pig. Brand "Tuscarawas." Cleveland...., Cuyahoga Union Rolling Mill Co., 5ag Perry-Payne Bldg. S. W. Sessions, prest.; A. S. Upson, v.-prest.; H. H. Wynam, seevy.; H. A. Fuller, treas, and mgr. Willard Fuller, sup. Pd-up cap. \$500,000. Enuma, 1 Sag. 560, 778.

Hanging Rock. Lawrence
Ry. 323.

Heans, Kyle & Co. E. B. Willard, prest, and mgr.; James Bull, seey, and treas. Pd.-up cap. \$500,000.

Hamilton and Pine Grove, coke and charecal, 2 stacks 65x16 and 38x10% feet, 25,000 tons coke pig and 5,500 tons charecal pig. Brands "Hamilton" and "Pine Grove." Selling agents, Rogers, Brown & Co., Cincinnati, Oliic, James Collord, Pittsburg, Pa.

Lectonia . . . . Columbiana Cherry Valley Iron Works. J. H. King, prest.; S. E. Welker, seey.; C. N. Schmick, treas. Pd-up cap. S55,000. Cherry Valley, blast, 1 stack 75x 16 feet, 50,000 tons, foundry pig. Brands "Cherry Valley" and "Lectonia."

Lowellville.... Mathoning Ohio Iron & Steel Co. Thos. H. Wells, prest.; John C. Wick, v.-prest.; R. Bentley, seey, and mgr.; F. H. Wick, treas.; W. S. McCombs, supt. Pd.-up enp., \$150,000. The Mary, blast, I stack 75x16 feet, 70,000 tons, Scotch pig. Braud "The Mary Ohio Scotch." Selling agents, Pickands, Mather & Co., Cleveland, Ohio; Pickands, Brown & Co., Cheago, Ili.; N. S. Bartlett & Co., Boston, Mass. Madison .......Jackson Clare Dudint & Co., Rempel, Ohio. Linn Bentley, financial agent and supt. Pd.-up cap. \$40,000. Madison. (P. O. Rempel) Ry. 156. charcoal hot blast, 1 stack 37x9% feet, 3,500 tons, pig. Brand "Madison."

Steubenville . . . . Jefferson – Jefferson Iron Works, S. Third st. S. K. Wallace, prest.; W. H. McClinton, v-prest.; Geo. P. Harden, seey, and treas.; John Kennedy, mgr. and supt. Cap. stock \$800,000. Jefferson, hot blast, 1 stack f7x80 feet, 82,555 tons, Bessemer pig iron. Brand "Jefferson."

Jackson Globe Iron Co. Eben Jones, prest.; Elyas Crandall, v.-prest., treas, and supt.; John E. Jones, secy.; L. T. Murfin, mgr. Pd.-up cap, 892,000. Fullton, hot blast, t stack 22844 feet, 7,000 tons, 85coth pig. Brand "Globe," Se-sluing agents, W. R. Thomas, New York City: Chas, Himrod & Co., Chicago, Ill.

Star Furnace Co. B. Kahn, prest.; C. O. Brown, seey.; L. V. Brown, mgr. Slar, blast, 1 stack 14x54 feet, 10,000 tons, pig rom. Brand "Star."

Salem Iron Co., Pittsburg, Pa., cor. Wood st. and Sixth av. John McKeefrey, prest, and gen. mgr.; W. D. McKeefrey, y-prest, and treas.; N. J. McKeefrey, seey.; P. W. Murphy, supt. Cap. stk. \$60,000. Graftton, hot blast, 1 stack 13x54 and 1 stack 14x54 (cct\_63,000 tons, coke pig iron, Bessemer, foundry and forge, Brands "Seneca," "Aliegheny" and "Salem." Selling agents, McKeefrey & Co., Lectonia, Ohio.

omas Furnace Co. J. R. Thomas, prest.; J. M. Thomas, mgr.; W. Aubrey Thomas, supt. Thomas, blast, 1 stack 76½ 2017½ feet, 70,000 tons, Bessemer pig. Brand "Thomas."

Riverside Iron Works, Wheeling, W. Va., 1304 Main st. J. N. Vance, prest.; John D. Culbertson, seey, and treas.; F. J. Hearne, mgr.; F. Spearman, supt. Cap. stk. \$1,500,000. Steubenville, hot blast, 1 stack 75x16 (eet, 70,000 tons, pig iron. Brand "Riverside."

### () III()= (CONTINUED)

Name of Company or Individual, Location of Principal Office when Different from Location of Works,

NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL

CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.

LOCATION,

RAILWAYS, WATER ROTTES

AND SHIPPING POINT.

Danyllle

Emporium...

Everett ... Ry, 317.

Ry. 563.

Harrisburg . . . . Dauph Ry. 199, 528, 563, 578.

Macungie... ... Ry, 578.

New Castle

AND COUNTY

YoungstownMahoning Ry. 383, 503, 585, 589, 591, 592.	Briar Hill Fron & Coal Co. George Tod, prest.; Henry Tod, v-prest.; H. H. Stambaugh, seey, and treas.; J. G. Butler jr., mgr. Cap. stk. \$500,000. Grace Nos. 1 and 2, hot blast, 2 stacks [8x80 feet, 30,000 tons, pig fron.]	
· · · · · · · · · · · · · · · ·	The Youngstown Steel Co., 35 Central Square. Tod Ford, prest, andgen, mgr.; Pand Jones, v-prest, John Stambangh, seey, and treas; Edw. L. Ford, supt. Pdup cap, Scooo. The Tod, coke, I stack 663-x14 feet, 50,000 tons, Bessemer, foundry and mill. Brand "Youngstown Scotch." Selling agents, H. G. Dravo, Pittsburg, Pat, J. L. Hogan & Co., Philadelphia, I. a.; Tod, Stambangh & C., Geveland, Ohio.	
Zanesville, Muskingum Ry, 42, 164, 173, 182, 169.	Ohio Iron Co. M. Churchill, prest.; E. B. Greene, vprest.; John R. Cary, seey.; C. D. Greene, treas.; F. C. Greene, supt. Cap. 84k, \$500,000. Hot blast, 1 stack 16x75 feet, 50,000 tons. Bessemer, foundry and gray forge pig Iron.	
	OREGON	
Oswego Clackamas Ry, 529.	Oregon Iron & Steel Co., Portland, Ore., 106 Third St. Theo, B. Wilcox, prest.; Martin Winch, yprest.; J., Frank Watson, seey, and gen, sapt.; Ladd & Tilton, treas. Cap. stk \$140,000. Hot blast charconl, 1 stack 20x15x06 feet, 15,000 tons, pg iron. Brand Oregon, "Selling agents, Falk & Saeger, 329 Mission st., San Francisco, Cal.; Northwestern Supply Co., Tacoma and Scattle, Wash.	
PENNSYLVANIA		
Allentown Lehigh Ry, 118, 393, 573, 578.	Allentown Iron Co., Philadelphia, Pa., 226–8, Third st., Joseph S., Harris, prest.; C. F., Howell, secy, and trens.; E. T., Clizen, supt. Pdup cap. 859,000. Allentown, 2 stacks each 6a817 feet, 70,000 fons, foundry pig., Brand "Allentown," Selling agent, E., Hill, Philadelphia, Pa., 226–8, Third st.	
Bellefonte Centre Ry, 86, 563.	The Valentine Tron Co. G. W. Gephart, prest,; Robt. Valentine, seey, and treas.; Wm. Kelley, supt. Pdup cap, 837,000. Valentine, hot blast, 1 stack 75v15 feet, 38,000 tons, foundry and gray forge pig. Brand "Stittan,"	
Bloomsburg Columbia Ry, 66, 209, 578.	The Bloomsburg Iron Co. L. S. Wintersteen, prest.; J. J. Brown, seey, and treas.; Josiah Raiston, mgr. 41d-up cap, \$100,000. Irondale, coke, 2 stacks 40x7 and 14x8 feet, 13,000 tons, pig. Brand "Irondale,"	
44	Wm. Neal & Sons. Cap. \$150,000. Bloom, charcoal blast, 1 stack 56x14 feet, 16,000 fons, pig. Brand "Bloom."	
Boiling Springs Cumberland Ry, 578.	Boiling Springs{Iron Co. J. C. Bucher, prest.; W. A. Mullin, seey. Cap. \$30,000. Boiling Springs, charcoal blast. 1 stack 30x12 feet, 3,640 tons, pig. Brand "High Grade Charcoal."	
Cartisle Cumberland Ry, 199.	C. W. Ahl's Son. N. W. Ahl, mgr. Cap. \$100,000. Katherine, coke, I stack 50x12 feet, 14,000 tons, foundry pig. Brand "Katherine."	
Catasanqua Lehigh Ry, 110, 118, 393.	The Crane Iron Co., Philadelphia, Pa., 224 8. Fourth st. H. W. Hazard, prest.; James M. Hodge, seey, and trens.; Leonard Peckitt, supt. Pdup cap. \$1,500,000. Crane Iron Works, coal and coke blast, 4 stacks, two catch feet and two 75x18 feet, 100,000 tons, pig. Brands "Crane," "Castle" and "Mohican." Selling agents, Geo. T. Barvis & Co., Philadelphia, Pa., 312 Walmut st.	

Chambersburg Franklin Bonebrake, Burkhart & Co. Falling Spring, charcoal cold blast, 1 stack 40x80, feet, 5,000 tons, pig. Brand Ry, 199, 804. 

anon......Lebanon 1, & R. Meily, Lebanon Valley. Hot blast, 1 stack; 24,000 tons, pig. Brand "Lebanon Valley." Ry, 183, 194, 578.

Mont Alto . . . . . Franklin Mont Alto Iron Works. Edw. Weistling, supt. Hot blast charcoal, 1 stack, 12,000 tons, pig iron. Brand Ry, 468. "Mont Alto." v Castle, . . . , Lawrence Crawford Iron & Steel Co. Win, Patterson, prest.; W. E. Reis, seey, and mgr.; J. A. Crawford, treas. Pd.-up 18y,252,503,585,591,592, cap. \$150,000. Neshannock, blast, 1 stack 78x17 feet, 75,000 tons, Bessemer pig. Brand "Neshannock, based of the control of the con

North Branch Steel Co., Philadelphla, Pa., Twenty-fifth st. and Washington av. Edw. Samuel, prest.; F.P., Howe, v.-prest.; Chas. M. Griffith, seey.; Walter S. Massey, treas.; R. K. Polk, mgr.; John Hogendobler, supt. North Branch, hot blast. 1 stack 43x13 feet and 1 stack 64x16 feet, 30,000 tons, foundry, Bessemer and mill pig from

,Cameron Sinnamahoning Iron & Coal Co. E. M. Parrott, prest.; Wm. H. Allen, seey. Hot blast coke furnace, pig

Bedford Joseph E. Thropp, Philadelphia, Pa., 119 8, Fourth 8t., Room 44, Chas, Forney, supt. Everett, hot blast, 1 stack 18875 feet, 42,000 tons, foundry pig Iron. Brand "Everett," Selling agents, Jerome Keeley & Co., Philadelphia, 363 Walnut st.

Dauphin McCormick & Co., 223 Market st. Cap. \$360,000. Paxton, anthracite and coke blast, 2 stacks 60x13 and 63, 578. 75x14 feet, 56,000 tons, plg. Brand "Paxton." McCormick Estate, 223 Market st. Cap. \$40,000. Swatara. Anthracite and coke blast, 1 stack 50x11

Lehigh Craue Iron Co., Philadelphia, Pa., 224 S. Faurth st. H. W. Hazard, prest; Jas. M. Hodge, seey, and treas; Leonard Peckitt, supt. Cap. stk, 81,500,000. Maeungle, hot blast, 1 stack 5506 feet, 17,000 tons, coundry and Bessener pig iron. Selling agents, Geo. T. Baner & Co., 333 Walmit st., Philadelphia, Pa.

Efna Iron Works, Ltd. Edwin N. Ohl, chairman; A. W. Thompson, seey, and treas. Cap. stk. \$350,000, Efna, hot blast, 2 stacks 18x75 feet, 70,000 tons, pig iron. Brand ".Efna."

nyllle .......Montour Grove Bros. Columbia, charcoal, 1 stack 50x14 feet. Brand "Columbia." Ry, 209, 563, 578.

iron. \_ Idle at present.

feet, 8,000 tons, pig.

LOCATION

RAILWAYS, WATER ROUTES AND SHIPPING POINT.

### PENNSYLVANIA (CONTINUED)

Name of Company or Individual, Location of Principal Office when Different from Location of Works,

NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2,000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.

TOWN AND COUNTY.	
New Castle, Lawrence (Continued.)	Ramey & Berger Ivon Co., 150 Furnace st. J., Ramey, prest., Goo, R. Berger, seey, and treas. Cap. stk., \$20,000. Hot blast, 2 stacks 17x80 feet, 60,000 tons, Bessenner pig from, Brands "Norway," "Heeda," "Crown." Selling agent, Henry A. Adams, 17 Broadway, New York Circ.
Newport	Juniata Furnace & Poundry Co., Philadelphia, Pa., Beach and Marlborough sts. Affred Marshall, prest.; P. Hiestand, supt.; W. P. Young, chemist. Marshall, hot blast, 1 stack 68043 feet, 20,000 tons, foundry pig iron. Brand "Marshall," Selling agent, C. T. Holbrook, Beach and Mariborough sts., Philadelphia, Pa.
Parryville	Carbon Iron & Steel Co., Ltd., Mauch Chinik, Pa. M. S. Kemmerer, chairman; H. H. Butler, seey, and Ireas; H. R. Hall, mgr. and supt. Carbon coke blast, 3 stacks 52x13, 52x16 and 65x16 feet, 75,000 tons, pig. Brands "Viking," "Parry" and "Carbon."
Pittsburg Allegheny Ry, 11, 42, 43, 175, 563, 583, 584, 585, 590, 591.	Moorhead-McCleane Co. Geo. S. Griscom, prest.; M. K. Moorhead, vprest.; Chas. R. Dallas, seey.; W. J. Moorhead, treas. Solio, hot blast, 1 stack 80x20 feet, 80,000 tons, pig from Brand "Solio."
·	Shoenberger, Specr & Co., Fifteenth and . Etna sts. Shoenberger, coke, 2 stacks $75x15^{\circ}_2$ and $75x14^{\circ}_4$ feet, $113,400$ tons, Bessemer pig.
Port Kennedy Montgomery Ry. 563, 578.	Montgomery from Co. Abraham S. Patterson, prest; Joseph S. Patterson, seey, treas, and mgr. Pd-aup cap. \$15,000. Montgomery, charcoal blast, 1 stack 65x13° 5 feet, 25,000 tons, pig. Brands "Anon Bessemer" and "Montgomery," Selling agents, Philing & Crane, Philadelphia, Par. Builita Blag.
Reading Berks Ry, 563, 578, 820.	Reading Iron Co., 548 Washington 84. Geo. F. Baer, prest.; Thomas Varrington, seey.; F. C. Smink, treas, and gen, mgr, Albert Broden, supt. Keystone and Reading, charcoal, 4 stacks, two 55M5, one 56M5 and one 65M4; feet, 100,000 tons, foundry and mill iron. Brands "Bushong" and "Reading."
Riddlesburg Bedford Ry, 317.	Kemble 1ron Co. Alex. Nimiek, prest.; C. H. Scott, secy, and treas.; Wm. Lander, mgr. Hot blast, 2 stacks 60x13 feet, 30,600 tons, pig iron. Brand "Kemble."
Rittenhouse Gap Berks (P. O. Allentown) Ry. 110.	Hartzell Concentrating Co., Ltd., Philadelphin, Pa., Bullitt Bldg, W. K. Hartzell, chairman; F. I. Crane, seey.; W. S. Pilling, treas. Pdup cap, \$40,000. Ball-Norton Separator, 40,000 tons, high grade fron, Brand "Hartzell," Selling agents, Pilling & Crane, Philadelphia, Pa., Bullitt Bldg.
Rockhill Furnace Huntingdon Ry. 235.	Rockhill Iron & Coal Co., Philadelphia, Pa., 320 Walmt st. Wm. A. Ingham, prest.; Edw. Roberts jr., v-prest.; J. E. Baverstick, seey, and treas.; A. W. Sins, mgr.; Charles Conner, supt. Pdup cap. 81,540,000. Nos. 1 and 2, hot blast coke, 2 stacks 65x17 and 65x15 feet, 30,000 tons, forge and foundry pig. Brand "Rockhill."
Scranton Lackawanna Ry. 118, 209, 213, 505.	Lackawanna Iron & Steel Co., New York City, 52 Wall st. E. F. Hatfield, prest.; C. F. Malter, 2d vprest.; H. V. Vullee, seey, and asst. treas.; E. S. Molfatt, gen, mgr.; A. H. Lee, supt. Lackawanna, hot blast, 1 stack 73x29 geet. 1 stack 63x1 feet, 1 stack 75x18 feet, 1 stack 75x17 feet, 1 stack 75x18 geet, 125,000 tons, pig iron. Brand "Lackawanna."
Sharpsville Mercer Ry. 251, 503, 668.	Perkins & Co., Ltd. S. Perkin, chairman and mgr.; L. C. Hanna, seey, and treas.; George D. Devitt/Supt. Pdup cap. \$350,000. Mabel, charcoal, 2 stacks each 65x15 feet, 60,000 tons, pig. Brand "Mabel," Selling agents, M. A. Hanna & Co., Cleveland, Ohio.
South Bethlehem Northampton Ry, 118, 578.	Bethlehem Iron Co. Robt, P. Linderman, prest.; Robt, H. Sayre, vprest, and gen, mgr.; A. S. Schropp seey.; C. O. Brunner, treas; John Fritz, gen. supt.; R. W. Davenport, asst. supt. Cap. stk. \$4,000,000, Bethlehem, hot blast, 3 stacks 70x16 feet, 1 stack 63x15 feet, 1 stack 65x17 feet, 1 stack 65x14 feet, 1 stack 65x15 feet, 200,000 tons, pig iron. Brand "Bethlehem."
Steelton, Dauphin Ry, 563, 578.	Pennsylvania Steel Co., Philadelphia, Pa. Luther S. Bent, prest; F. W. Wood, mgr.; E. C. Felton, supt.; Edw. E. Knapp, asst. supt. Nos. 1, 2, 3 and 4, spiegel and Bessemer, 4 stacks, two 70 feet, one 55, and one so feet, fautou tons. Brand "Spiegel & Bessemer Fig."
Ry. 578.	Richard Hecksecker & Sons, Philadelphia, Pa., 238 S. Third st. Suede, charcoal blast, 2 stacks 72x14 and 80x15½ feet, 80,000 tons, mill and foundry pig. Brand "Suede."
Temple	Temple 1ron Co., Reading, Pa. George F. Baret, prest.; Thos. Varrington, seey.; F. C. Smink, treas.; Albert Broden, ngr. Temple, charcoal, 1 stack 55x13 <sup>1</sup> ; feet, 25,000 tons, pig. Brand "Temple."

### TENNESSEE

(	hat F	tanooga (y. 126, 240	Hamilton , 430, 482, 612.	Georgia Mining, Manufacturing & Improvement Co., Atlanta, Ga., 38 Wall st., J. S. Brown, prest.; J. M. Brown, vprest.; E. A. Brown, seey, and treas.; F. M. Connor, gen. ingr. Hot blast, 12,300 tons, pigiron.
(		b Ry. 612.	Monroe	Citico Furnace Co., Chattanooga, Tenn., Montague Bilg. H. S. Chamberlain, prest.; Wm. E. Raht, seey.; O. E. Wells, supt. Pdup. cap. \$200,000. Cirico, coke blast, 1 stack 69846 (feet, 40,000 tons, foundry pig. Brand "Citico."
				The state of the state of Terry Manhaman Dides H & Chamberdain proof of Orion I Hardburg over

Rockwood Roane Jrot Co., Chattanooga, Tenn., Montague Bdig. H. S. Chamberlain, prest.; Orion L. Hurlbut, seev.; Willard Warner Jr., supt.; John Patton, furnage supt. Pel.-up cap. 81,00,000. Rockwood, code blast.; Stacks abx14 and avx15 tect, 45,000 tons. mill and foundry pig. Brand "Rockwood," Selling agents, Warren, Wood & Co., New York, City, 20 Brondway, Hosbord & Phemer, Cincinnati, Ohio, Dunham, Keedy & Co., Chicago, Hr. Marthew Addy & Co., St. Louis, C

### TEXAS

New Birmingham
Cherokce
Ry, 400.

The New Birmingham Iton & Improvement Co. Richard L. Coleman, prest, and gen. mgr.; Samuel D.
Mills, supt. Pd-up cap. \$8,500,000. Tassie Belle, charcoal blast, 1 stack 60x11 feet, 15,000 tons, car wheel
and foundry pigs. Brand "Tassie Belle."

### VIRGINIA

RAILWAYS	OCATION , WATER	ROTTES	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNAGE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2000 POUNDS, NATURE OF OUTPUT, BRANDS, ANY SELLING AGENTS.
Town	AND	COENTY	

Big Stone Gap. ...Wise Appalaehian Steel & Iron Co. E. J. Bird yr., prest.; E. J. Bird, v.-prest, and gen. mgr.; M. T. Ridenour, seey, and treas. Pd.-up cap. \$350,000. Appalaehian, code blast, 2 stacks 75x16 feet, 60,000 tons, foundry pig. Brand "B SG," Selling agostis, Bason, Palto & Co., Chelmant, Ohlo.

Buena Vista, Rockbridge
Riy, 132, 523.

Buena Vista Fon Co. C. M. Clark, prest, A. T. Earclay, v.-prest, G. F. Baker, seey, and treas.; F. B
Kehards, mgr. Buena Vista, coke blast, I stack 70x16 (cet, 42,00) tons, pig. Brand "Buena Vista,
Selling agents, Jere Abbott & Co., New York (city, Ed. D. Serling algents, Jere Abbott & Co., New York (city, Ed. D. Serling algents, Jere Abbott & Co., New York (city, Ed. D. Serling algents, Jere Abbott & Co., New York (city, Ed. D. Serling algents, Jere Abbott & Co.)

Glen Wilton Botetourt D. S. Cook, Wrightsville, Pa. T. D. Kauffet, supt. Pd.-up. cap. 8300,000. Princess, coke, hot blast, 1 Ry. 132. Stack 50x12½ feet, 16,000 tons, pig. Brand "Princess," Selling agent, Wilton Cook, Wrightsville, Pa.

Goshen ... Rockbridge Virginia Iron & Railway Co. H. D. Turney, prest; Lee Chamberlain, v.-prest; C. J. Johnston, seey, and treas; Wm. J. Malhoney, spit. Rockbridge, lot blast, 1 stack SSAR feet, 55,000 tons, pig iron. Brand "Rockbridge," Selling agents, Chamberlain, Turney & Baird, Columbus, Ohlo, St. Lonis, Mo., Chicago, Hr. and Publishelphia, Pa.

Iron Gate ... Alleghamy Alleghamy Tron Co., New York City, 29 Broadway, T. C. Jones, mgr. Alleghamy, hot blast, 1 stack 18365

Iron Gate Ry, 132,
 Alleghany Alleghany Iron Co., New York City, 29 Broadway. T. C. Jones, mgr. Alleghany, hot blast, 1 stack 13x65 feet, 25x000 tons, pig fron. Brand "Alleghany," Selling agent, Meriwether Jones, Richmond, Va.
 Low Moor Iron Co. of Virginia. E. C. Means, prest, Frank Lepman, vice-prest,: N. M. Bell, seey.; E. A. Low, treas.; N. G. Merry, mgr. Cap. 8tk, 8500,000.

ky, 182. Campbell E. Burd Grubb. Edward P. Lee, mgr. Lynchburg, bot blast, I stack 12860 (cct, 18,000 tons, pig iron. Brand Ry, 182, 523, 622.

"Unchburg." Selling agents, Edmund D. Smith & Co., Philadelphia, Pa.

Roanoke ... Roanoke Roanoke Iron Co. Joseph H. Sands, prest, James E. Porter, seey, and treas.; Henry King, nigr. Pd. air exp. \$440,000. Roanoke, charteoal blast, 1 stack 80x16 feet, 30,000 fons, pig. Brand "Roanoke," Selling agents, Crocker Brox. New Vork (13), 32C1018 (13), 32C1018

### WASHINGTON

### WEST VIRGINIA

Benwood Marshall R verside from Works, Wheeling W. Va., 130 Main st. J. N. Vanc., pr. st.; John D. Culbertson, seey, and trens; F. J. Hearne, mr.; Win. Crockard, supt. Cap. stk. 81,500,000. Riverside, hot blast, 1 stack 75047 feet, 7,000 tong, priori.

Irondale Preston F. Nemegyei. Cap. \$280,000. Trondale, hot blast, 1 stack 60x14 feet, 20,000 tons, pig iron. P. O. and By. Independence 42.

Wheeling . Ohio Wheeling Steel & Iron Co. Cap. stk, \$1,801,000. Belmont, hot blast, 1 stack 16x70 feet, 50,000 tons. Bessemer By, 42, 175, 533, 534, 584. pog from Brand "Belmont," sis.

### WISCONSIN

- Ashland Ashland Ashland Iron & Steel Co., Municapolis, Muni, Chamber of Commerce Bidg. A. H. Hukle, prest., Frank Ry, 143, 49, 529, 827.

  B. Foote, v.-prest., W. H. Hukle, seey, and treas: Noah W. Gray, mer., L. E. Dunham, asst. mgr., Pd.-up cap., \$25,000.0, Hinkle, charcoal blast, 1 stack 602 teet, 40,000 tons, pig. Brand "Hinkle." Selling agents, Rogers, Brown & Co., elinemati, Olino, Rogers, Brown & Merwin, Checago, Ill.
- De Pere Ry, 156, 451.

  Brown National Furnace Co. Henry D. Smith, prest.: H. S. Packands, v. prest.: Eugene Smith, seey, and mgr. W. L. Brown, trens. Pd.-up cap, 880500. National, charceal blast, 1, 5 and 3 and 4 at 14 feet, 25,000 tons, p.g. Brand National. Selling agents, Pickands, P. Brown & Co., Cheago, Ill., Rookery Bidg.
- Fond du Lac Fond du Lac Wisconsin Furnace Co., Chicago, Ill., 79 Dearborn st. E. A. Hyde, prest.; J. F. Forsyth, seey, and treas, Ry, 141, 150, 827. W. H. Nelson, mgr., and supt. Pd., up cap., 85,000. Fond du Lac, charcoal blast, 1 stack 50x13 feet 15,000 tons, malleable and car wheel pug. Brand "Wisconsin." Selling agents, Forsyth, Hyde & Co., Chicago, Ill., 63 and 70 Dearborn st.
- Ironton Ry. 150. Sank Iron Mountain Ore & Furnace Co. G. W. Andrews, prest.; H. C. Gridley, seeg.; J. C. O. Gorman, treas.; Ry. 150. G. W. Andrews, ingr. Sank, charcoal blast, 1 stack 30x8 z feet, 2,000 tons, pig. Brand "Sank,"
- Mayville ... Bodge Northwestern Iron Co., Mitwankee, Wis., 67 New Insurance Bldg. Irving M. Bean, prest, and mgr.; J. C. Ry, 141.

  Spiencer, v. prest, F. W. K. Packman, seey., Chas. F. Bsley, treas., Chas. A. Grimes, supt. Gap. 8tk. \$50,000. Mayville, hot blast, I stack 67v14 feet, 40,000 tons, pig iron. Brand "Sadney," selling agents. Chas. W. Goodrich & Co., The Bookery, Chicago, Ill.
- Milwankee Milwankee Illimois Steel Co., Chicago, 10., Rookery Bldg., Adams and La Salle sts. J. C. Morse, prest., W. R. Stir Bug and H. S. Smuth, v-prests.; H. A. Gray, seey.; J. C. Stirling, frens. Milwankee, 2 stacks, hot blast, 190,000 tons, Bessemer pig, foundry and milt pig and spiegel. Schang agents, Pickands, Brown & Co., tenth floor Rookery Bilg., Chicago, 10.

### NOVA SCOTIA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.

NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFERENT FROM LOCATION OF WORES, NAMES OF OFFICERS, PAID-UP CAPITAL STOCK, KIND OF FURNACE, NUMBER AND SIZE OF STACKS, ANNUAL CAPACITY IN TONS OF 2000 POUNDS, NATURE OF OUTPUT, BRANDS, AND SELLING AGENTS.

Bridgeville Ry. 325,

AND COUNTY

Picton Picton Charcoal Iron Co., Ltd., New Glasgow, Nova Scotia. W. B. Moore, prest.; D. R. Grant, seey, and treas; E. A. Sjostedt, ngr. Pd.-up cap, 830,000. Picton, charcoal blast, 1 stack 50x11 ft, 7,000 tons, car wheel and bandleable pig.

### MEXICO

rango Durango Burango Steel & Iron Co., Des Moines, Iowa, James Calianan, prest.; Geo, Crane, v.-prest.; Geo, W.,
Raker, seey.; A. Holland, treas, and registrar; Hon, L. Lopez Negrete, atty.; J. S. McCanghan, gen, mgr.
Pd.-up. cap. \$3,000,000. Durango, charcoad blast, 1 stack and 3 puddiling furnaces, 2,000 tons, pig and
bar. Selling agents, Sthalkweith & Co., Durango, Mex. Durango

# SMELTERS.

# REDUCTION AND SAMPLING WORKS

### ARIZONA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFFEENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAINTLY CAPITAL STOCK, KIND OF FURNACY, MUMBRIAND SIZE OF STACKS, ANNUAL CAPACITY IN TOSS OF 200 POUNDS. BRANDS, AND NATURE OF OUTSIDE BOY
Town AND COUNTY	
Prescott . Navapai Ry, 604.	Arizona Ore Co. Foster S. Dennis, prest., J. M. W. Moere, vprest.; M. C. Foote, seey.; W. B. Jones, treas., H. D. Derwin, supt. Pdup cap. 8:2500. Sancolers and buyers of gold, silver, lead and copper ores.
Tueson Pima Ry, 692.	Tueson Sampling Works. Chas. R. Wores, propr. and mgr. Sampler of gold, silver, lead and copper ores.
	CALIFORNIA
Ry, 692.	Phoenix Reduction Works. Aborbeis & Barney, owners. Reverberatory furnace, 1 stack 3x60 inches, 1,000 (ons. bullion, silver and gold.
Grass Valley Nevada Ry, 490.	T. Petiljean, P. O. Box 361. Plafiner, two-story furnace, 1 stack, gold, silver, lead and copper ores.
Needles San Bernardino Ry, 26.	Needles Reduction Co., Denver, Colo., 521 McPhee Block, cor, Seventeenth and Glenarm 8ts. Asaac E. Blake, prest; Warren G. Pundy, v. prest, Geo. C. Manly, seey., Walter F. Crosby, treas; F. L. Morgan, mgr. and supt. Cap. 8tk, 84,000.00.   Under construction.
Ry, 490.	Pioneer Reduction Works Co. Benj. Hall, Win. Black, J. Northey and J. G. Northey, owners. Benj. Hall, supt. Cap. \$10,000. Reverberatory furnace, 2 stacks, 2,50 (tors, gold, silver and copper buillion.
	Pioneer Sampling Works. Benj. Hall, Wm. Black, J. Northey and J. G. Northey, owners, Benj. Hall, supt. Cap. \$10,000. Samplers of gold, silver and copper ores.
Sutters Creek Amador Rv. 692.	Amador Reduction Works. E. C. Voorheis, supt. Reverberatory and chlorination process, 1 stack 36x60 inches hearth area, 1,500 tons, bullion gold and silver.
Vallejo Jn - Contra Costa (P. O. Selby+ Ry, 692.	Selby Smelling & Lead Co., San Francisco, Cal., 416 Montgomery St. A. J. Ralston, prest.; H. B. Underhill jr., seey.; Bank of California, treas., Affred Ropp, supt. Pdup cap. \$000.00, 8-dby, refined gold and silver, lead, bluestone. Selling agent, B. Haxtun, New York City, 472 Cutter St., [See adv., page 10.
	COLORADO
Aspen Ry, 26, 215.	Holden Smelting & Milling Co. Edw. R. Holden, prest., Richard Cline, v. prest, and treas., J. L. Jerome, seey.; Willard S. Morse, gen. mgr. Cap. 8tk. 850,000. Livivation process, 30,000 tons, silver bullion.
**	Taylor & Brunton Sampling Works Co., Ute av. F. M. Taylor, prest, and mgr., D. W. Brunton, vprest.; L. H. Kemble, seey. Cap. stk. \$25,000. Samplers of gold, silver, lead and copper ores.
Bouider Boulder Ry, 776.	W. J. Chamberlain & Co. samplers and buyers of preclous ores. (See Denver, Colo.)
	W. J. Chamberlain & Co., 1315 Sixteenth st. Samplers and buyers of precious ores. (See also Boulder, Georgetown and Idaho Springs, Colo., Austin and Carlin, Nev. 1 (See adv., page 10.)
	Denver Public Sampling Works Co., Brown Palace Hotel, M. F. Smath, prest., J. Moennig, seey.; P. S. Baily, supt. Cap. stk. 850,000. Samplers of gold, silver, copper and lead ores, 180,000 tons.
	Llewellyn Smelling & Refining Co., 500 and 510 Mining Exchange. H. S. Harle, prest., H. A. Lewis, seey.; Howard Evans, treas.; J. O. Hogg, mgr.; E. F. Plamer, supt. Cap, 8tk, \$1,000,000. Newly incorporated.
	Omaha & Grant Smelting Co., Gny C. Barton, prest., J. B. Grant, v. prest., E. W. Nash, seey, and treas.; Edward Eddy, nggr.; W. L. James, supt. Pdup cap, 82,500,000. Blast and reverberatory furnaces, 10 stacks 33(10) inches, 150,000 tons. Lead, bullion, copper matte. Brand "Grant smelting Co."
	Union Ore Sampling Co., 130 Eighteenth st. Herman C. Joy, prest, and mgr.; Chas. Rufer, vprest, and trens.; Chas. R. Toll, seey.; Felix Walter, supt. Cap. stk. \$30,000. Samplers of gold, silver, copper and lead ores, 150,000 tons.
Durango La Plata Ry, 215.	The San Juan Smelting & Mining Co., New York City, 10 Wall St. Henry Amy, prest.; J. A. Davidson, seey, and treas; E. J. H. Amy, mgr. Lead blast furnaces, 6 stacks 36592 inches, 85,000 fons, base bullion, gold, silver, lead and copier.
Georgetown, "Clear Creek Ry. 776.	W. J. Chamberlain & Co., ore buyers and samplers — See Denver, Colo.)
	W. J. Chamberlain & Co., ore buyers and samplers. (See Deuver, Colo.)
	American Smelting Works, J. B. Arnold, prest. Wm. H. Van Arsdale, vprest., H. I. Higgins, 2d vprest.; John A. Knapp, seey.; H. H. De Loss, trens.; E. F. Eurich, mgr. Cap. stk. \$2,000,000. Shaft farnaces, 100,000 tons, gold, silver, pig lead and copper matte. Brands "Aurora Refined," "Aurora" and "Chicago." (See Aurora and Chicago, Ill.)
	Consolidated Kansas City Smelling & Refining Co., Kansas City, Mo., 231 Exchange Bidg. Ang. R. Meyer, prest, and trens.; NAWetherell, y-prest, R. D. Everett, seegy, H. Lither, gen. mgr.; R. D. Rhodes, supt. Pdup cap. \$2,500,000. Blast furnace and water jackets, 24 stacks, 40,750 tons, buildion and copper matte refinery, gold, silver, lead and copper. Brands "Kansas," "Refined Lead" and "Kansas City," New York Office, 20 Aussan st.; Chicago office, The Rookery, (See also El Pres). Fexus, and Argen-

The Elgin Smelting Co. A. Sherwin, prest, (reas, and mgr. H. W. Lake, v. prest,; Saml, D. Wilder, secy, and smpt. Pd.-up cap, \$150,000. Blast furnaces, 3 stacks, 36,000 tons, lead, bullion and copper matte. Brand "Elgin Smelting Co."

### COLORADO -(CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	NAME OF COMPANY OR INDIVIDUAL, LOCATION OF PRINCIPAL OFFICE WHEN DIFFFRENT FROM LOCATION OF WORKS, NAMES OF OFFICERS, PAID-FF CAPITAL STOCK, KIND OF FURNACE, KYMBER AND SIZE OF STACES, ANNUAL CAPACITY IN TUNS OF 2,000 POUNDS, BRANDS, AND NATURE OF OUTFUT.
Leadville Lake (Continued.)	Harrison Reduction Works, smelters of gold, silver, lead and copper ores. (See St. Louis Smelting & Refining Co., St. Louis, Mo.)
44	Public Sampling Works, H. H. Norton, mgr.; P. P. Seltzer, supt. Samplers and buyers of gold, silver, lead and copper ores.
Pueblo	The Colorado Smelting Co. A. Ellets, prest, and gen, mgr.; R. W. Raymond, vprest.; H. C. Cooper, seey.; W. S. Gurnec, seey.; A. S. Dwight, supt. Pdup cap. \$590,000. Shaff furnace, the process, with roasting furnaces, 5 stacks \$2506 inches hearth area, \$8,500 tons, base buillion and copper matter.
	Philadelphia Smelting & Refining Co. M. Guggenheim jr., prest.; Wm. Guggenheim, vprest.; S. Guggenheim, treas.; Benl. Guggenheim, ngr.; A. Raht, supt. Pdup. st/250,000. Blast furnace, lead smelter, 8 stacks/4.24/20 inches, 150,000 tons, base bullion. (See also Monterey, Mex.)
. "	The Pueblo Smelling & Refining Co. M. D. Thatcher, prest.; W. F. Havemeyer, vprest.; S. R. Ritchie, seey, and treax.; E. W. Aflen, gen. mag; E. P. Watherson, supt. Pdup cap. 81,678,200. Blast furnaces, 12 stacks, 250,600 (ons. base bullion, silver, gold, lead and copper.
	ПОАНО
WallaceShoshone Ry, 529, 776.	Northwestern Sampling & Milling Co., Spokane, Wash., Rooms 39 and 40 Zeigler Bldg., Jos. E. Boss, prest.; Geo. D. Potter, vprest.; Ernest C. Arnoldi, seey, and trens.; Geo. D. Potter, mgr., Cap. stk., \$100,000. Ploneer Sampling Works, samplers of gold, silver, lead and copper ores.

	HALINOIS
Aurora	Chicago & Aurora Smelling & Refining Co., Chicago, Ill., The Temple, 184 La Salle 8t. J. B. Arnoid, prest; Wm. H. Van Arsdale, v,prest, Ill. I. Higgins 2d v,prest; John A. Knapp, seep. Il. H. D. De Jose, trens.; E. F. Eurich, mgr. Cap. 8tk. \$2,050,00. Shaff, furnaces, 50,000 tons, gold, silver, pig lead and copper matte. Brands of lead "Aurora Refined," "Aurora" and Chicago," (See adv., page 11.)
Chicago Cook Ry, 142, 146, 383, 26, 135, 145.	Chicago & Aurora Smelting & Refining Co., The Temple, 184 La Safle 8t. J. B. Arnold, prest; Win, H. Van Arsalat, vprest; H. H. De Joss, trens; E. F. Eurich, mgr. Cap. 8th, 82,000,000. Shaff, furnaces, 25,000 tons, gold, silver, pig lead and copper matte. Brands of lead "Aurora Refined," "Aurora," "Chicago," (See adv., page 1).
N	Chicago Copper Refining Co., 621 Phenix Bldg. Smelters and refiners of copper matte. (See adv., page 11.)
** **	National Smelling & Refining Co., 520 and 521 Phenix Bldg. Barton Sewell, prest, and treas.; Marshall F. Holmes, v-prest, and sevey.; F. B. F. Rhodes, supt. Smellers and refiners of ore and base builtion. (See adv., page 54a.)
	Walburn-Swenson Co., 1520 Monadnock Block. A. W. Walburn, prest.; M. Swenson, secy. Experimental concentration works and assay laboratory. (See adv., page 537.)
La SalleLa Salle Ry, 135, 142, 319,	Matthiessen & Hegeler Zinc Co. E. C. Hegeler, prest.; F. W. Matthiessen, seey. Pdup cap. \$426,600. Zinc furnace, 13,000 tons, speller. Brand "M. & H. Zinc Co."

### KANSAS

(P. O. Pittsburg) Ry. 26, 348, 460, 720.	
Galena Cherokee Ry, 348, 720.	American Spelter Co., St. Louis, Mo., 322 Pine St. L. B. Stephenson, prest; F. W. Humphrey, vprest, and mgr; F. F. Espenschird, seey, and treas; Richard Baker, supt. Pdm eqn. \$29a,600. Zmc smelter, 6 blocks, 1,34 retorts, 6,000 tons, zine spelter. Brand "American Eagle. Selling agents, John Wall Commission Co., St. Louis, Mo.

Baker ...... Crawford. W. & J. Lanyon, Pittsburg, Kan. Six furnaces, 3,000 tons, zinc spelter. Brand "W. & J. Lanyon."

### MISSOURI

Ry. 460.	bourne, treas,; Alex, Harrison, supt. Pdup cap, \$80,000. Blast furnaces, 2 stacks 12x15 feet, 20,000 tons, pig lead. Brand "Old Mines Lead Co."
St. Louis St. Louis Ry, 720, 460, 348, 145.	St. Louis Sampling & Testing Works, 1225 and 1227 Spruce st. Complete plant for sampling and testing ores. (See adv., page 546.)
and the second s	att. V. of the Jales and M. Meiner Ct. III more lathering of the discount of the Alexander of the January and Land Land Land Land Land Land Land

8t. Louis, Smelting and Relining Co., Howard Station, Cap. 8tk, \$2,000,000. Smelters and producers of gold, silver, lead and electrolytic copper. Branches, Harrison Reduction Works, Leadville, Colo., and Rio Grande Smelting Works, Secorro, N. M. (See adv., page 10.)

### MONTANA

Castle Meagher	Cumberland Mining & Smelting Co.	Chas, E. Severance, prest.; Arthur Young, vice-prest.; R. H. Minty
Ry, Townsend 529.	secy.; J. L. Fraser, treas.; A. J.	. Huneke, mgr. Cap. stk. \$5,000,000. Water jackets, 1 stack 48x90
	inches, 1 stack 36x80 inches, 4,800	tons, lead and silver bullion. Brand "C. M. & S. Co."

EastHelena.Lewis&Clarke	United Smelting & Retining Co. A. S. Hewitt, prest.; Wm. N. Cromwell, vprest.; H. C. Cooper, secy.;
Rv. 293, 529.	W. S. Gurnee, treas.; A. Eilers, gen. mgr.; H. Suhr, mgr.; A. L. Dean, supt. Cap. stk. \$1,530,000.
	Samplers of gold, silver, lead and copper ores.

United Smelting & Refining Co. A. S. Hewitt, prest.; Wm. N. Cromwell, v.-prest.; H. C. Cooper, seey.; W. S. Garriec, trens.; A. Elliers, gen. mgr.; H. Suhr, mgr.; A. L. Dean, supt. Cap. stk. \$1,330,000. East Helena 4.8 tacks 36296 inches, 73,000 tons, base bullion and copper matte. Brand "United Sm. & Ref. Co." Selling agents, National Smelting & Refining Co., Chicago, Id.

### MONTANA (CONTINUED)

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT.	Name of Company or Individual. Location of Frincipal Office when Different from Location of Wores, Xames of Officers, Paidle 4 (apteal stock, Rind of Furnace, Number and Nize of Stacks, Anneal Capacity in Tons of 2400 Founds, Branchs, and Nature of Output.
TOWN AND COUNTY.	
GlendaleBeaverhead Ry, 529.	Heela Consolidated Mining Co., Indianapolis, Ind., John Thomas, prest.; W. H. Talbott, vprest.; John McUntcheon, scey.; John C. Wright, treas.; H. Knippenberg, gen. mgr. Pdup cap. \$1,500,000. Water jackets, 3 stacks, base bullion, gold, silver and lead. Samuel A. Barber, supt.
Great Falls Cascade Ry, 292, 293.	United Smelting & Refining Co. A. S. Hewitt, prest.; Wm. N. Cromwell, vprest.; H. C. Cooper, seey.; W. S. Gurnee, treas.; A. Eilers, gen. mgr.; H. Suhr, mgr.; A. L. Dean, supt. Cap. stk. \$1,530,000.

·		Samplers of gold, silver, lead and copper ores,
**	4.5	United Smelting & Refining Co. A. S. Hewitt, prest.; Wm. N. Cromwell, vprest.; H. C. Cooper, seey.; W.
		S. Gurnee, treas.; A. Eilers, gen. mgr.; 4i. Suhr, mgr., A. L. Dean, supt. Cap. stk. \$1,530,000. Great
		Falls, 4 stacks 42x96 inches, 73,000 tons, base bullion and copper matte. Brand "United Sm. & Ref.
		Co." Selling agents, National Smelting & Refining Co., Chicago, 10.

Austin

	the state of the s	and a manage of a managed mana
Helena Lewis and Ciarke Ry, 208, 529.		S. Braden, prest, and mgr., E. D. Edgerton, seey, and treas.; E. B. Samplers and buyers of gold, silver, lead and copper ores, 60,000

### NEVADA

Jander W. J. Chamberlain & Co., ore buyers and samplers. (See Denver, Colo.)

Ry. 489.	
Carlin Ry. 692,	Elko W. J. Chamberlain & Co., ore buyers and samplers. (See Denver, Colo.)
Sprucement . Ry, 692,	Elko Juniper Consolidated Mining & Smelting Co. J. F. Lemnis, prest, and mgr.; W. M. Beal, vprest.; W. N. Beal, vecy, and treas. Pdup cap, \$500,000. Water jacket, smelling furnace, 2 stacks, 22,000 tons, base bullion.

### NEW MEXICO

Ry. 26, 602.	treas.; J. A. Martin, supt. Cap. 8tk, 812,000. Samplers of gold, silver, lead, copper tons.	
Hitlsboro Ry. 26,	erra Standard Gold Mining & Milling Co., Minneapolis, Minn., 205 Century, Block, Jas., C., Stocker, A., prest, Geo. L., Matchan, See, J. M. F. Schouled, Irens., Nicholas talloc, supt. Pd-upcap, \$2,000,00., Matte furnice, smelter, 15,000 tons, copper matte, gold Brand Standard Co., See Side Puchla, Smelther & Rechmer Co. Puchla et al. (2018).	mgr., Wm. Kemp.

Socorro Rio Grande Smelting Works, smelters of precious ores, | See St. Louis Smelting & Refining Co. Socorro, Ry. 26.

### NEW YORK

Lockport	Nagara	Cowles Electric Smelling & Aluminum Co. F. W. Matthiessen, prest., A. H. Cowles, v. pre	st.: 11. W.
Ry, 501, 503.		Power, seey.; A. T. Osborn, treas.; F. J. Davis, supt. Products, silicon and aluminum. Bran	d"Cowles"

### SOUTH DAKOTA

Deadwood, .lawren	ee Deadwood & Delaware Smeiting Co., Wilmington, De. , W. H. Swift, prest., W. G. Pennypacker, seey.;
Ry, 88, 208, 274.	Joseph Swift, treas., Franklin K. Carpenter, mgr. Pdup cap. \$300,000. Blast turnace, 3 stacks, may e
	and fead builion, gold, silver, lead and copper.

Rapid City	Pennington	Black Hills Milling & Smelting	Co. Robt. H. Tl	horburn, prest, and	mgr.; Wm. Dunn, vprest, and treas.;
Ry, 274.		A. W. Bell, seey., Donald	Dennes, supt.	Cap. 81k. 83 (1,000).	Chlorination process, 35,000 tons, gold
		ores,			

### OREGON

Linnton	.Multnomah	Portland Smelting & Refining Works, Portland, Ore., corner First and Oak s(s. John McCraken, prest.:
Ry., 529.		Chas. Hegele, vprest.; W. A. Buchanan, seey.; Bank of British Columbia, treas.; S. Chase, supt.
		Pdup cap. \$500,000. Lead smelter, water jacket, 2 stacks 40x80 inches, base bullion, gold, silver and

	(1 (1))		
Portland , Multnomah	Washington Reduction	Co., Box 14. D. P. Thompson, prest.:	Fred V. Hulman, v.sprest.; Jonathan
Ry, 529, 547, 692, 776.	Bourne, seey.; H. C.	Stratton, treas.; Luther Wagoner, mgr.	Pd. upcap, \$100,000. Silver concentrates

Ry, 326, 436, 629,

Tacoma.

### PENNSYLVANIA

LOCATION, RAILWAYS, WATER ROUTES AND SHIPPING POINT. TOWN AND COUNTY.	Name of Company or Individual, Location of Principal Office when Different from Location of Works, Names of Officers, Paid-th Capital Stock, Kind of Furnace, Number and Size of Stacks, Annual Capacity in Tors of 2,000 Pounds, Brands, and Nature of Outfut.
Chester,Delaware Ry, 42, 577.	Crown Smellting Co. Geo, N. Grumback, prest, mgr, and supt.; Frank Burns, vprest.; Henry T. Davis, seey, and treas. Cap. six, \$100,000. Telpr. pr. \$75,000. Reverberating and crucible furnaces, 2 stacks 20x30 inches x 43 feet, 1,300 tons, Crown and Phosphor bronze and brass. Brand "Crown."
Mansfield Allegheny Ry, 583, 584.	Pennsylvania Lead Co., Pittshurg, Pa., 600 Wood st. J. E. Sebwartz, prest; B. W. Doyle, vprest; J. L. Sebwartz, seey; H. E. Anderson, trens; Geo. Fannee, spit, Cap. Sti. 8,1000,000. Blast and reverleratory furnaces, 4 stacks 38×100 inches, 30,000 tons, pig lead, copper and fine gold and silver. Brands "Pennia Ref"d" and "Pennia Lead Co."
NewKensington Westmoreland Ry, Fairfield 11.	Pittsburg, Reduction, Co., Pittsburg, Pa., 416 Water St., Alfred E. Hunt, prest.; Clas. M. Hall, vprest.; Geo. H. Clapp, seey.; W. S. Mitchell, freas.; A. V. Davis, supt. Electrolytic smeller, 6 pots, 68483 feet, 75 tons, metallic aluminum.

### TEXAS

El Paso Ry. 26, 434, 63		Mexican Ore Co., Sheldon Block. H. ores, bullion and furnace products	A. True, mgr.—Samplers and buyers of gold, silver, lead and copper.
Lancela	Walsh	Mariann Ora Co. D. A. Truo mar. A	Canadage and havers of said either tood and annuar area bullion and

furnace products.

# UTAII Park City ... . . Summit R. Mackintosh, Salt Lake City, Utah, Box 1135. Pd.-up cap. \$25,000. Park City Sampling Mill, samplers of

Ry. 776.	gold, silver, lead and copper ores.
St. George Washington Ry, 776,	The Dixie Mining & Smelting Co. John Pymer, prest.; R. C. Lund, vprest, and mgr.; S. A. Pymer, seey, and treas. Pd,-up cap, \$125,000. Dixie, water jackets, I stack 36 inches, copper, 325 tons.
Sandy Salt Lake Ry. 215.	R. Mackintosh, Salt Lake City, Utah, Box 1135. A. J. Cushing, mgr, and supt. Cap. \$25,000. Pioneer Sampling Mill, gold, silver, lead and copper, 182,500 tons. (See also Park City Sampling Mill.)
Satt Lake Salt Lake Ry. 626, 776, 777.	The Conklin Sampling Works. F. O. Harn, prest, and treas.; C. B. Markland, seey, and supt. Pdup cap. \$14,000. Samplers of gold, silver, lead and copper ores.

### WASHINGTON

Everett	Puget Sound Reduction Co. Joseph L. Colby, prest, and treas.; Charles F. Rand, seey.; Alton L. Dickerman, consulting engineer; Wm. C. Butler, gen. mgr. Pdup cap. \$900,000. Water jacket, 3 stacks, 42x120 inches, 75,000 tons. Base bullion.
Ruby, Okanogan Ry, Coulee City 529 (80 miles),	Washington Reduction Co., Portland, Ore., 205; Morrison St. D. P. Thompson, prest; Jonathan Bourneijin, seer;; I. P. C. Stratton, treas; Luther Wagoner, mgr. and supt. Cap. stk. \$100,000. Gold, silver, tead, water, 10 stamps and concentrator.

..., Pierce Tacoma Smelting & Refining Co., Geo, Browne, prest.; Paul Schulze, v.-prest.; Richard Briggs jr., seey.;
Walter Oakes, treas.; W. R. Rust, argr.; F. W. Clark, sapt. Pd.-up cap. \$1,000,000. Blast furnace, 2
stacks 38x84 inches, 40,000 tons. Lead bullion and copper matte.

Mingo Smelting Co., J. E. Schwartz, prest.; Wm. Reld, seey.; F. H. Officer, treas.; Fritz Wolf, supt. Cap. stk. \$500,000. Blast, 7 stacks 36x(20 inches, 140,000 tons, pig lead and copper and fine gold and silver.

### BRITISH COLUMBIA

Revelstoke WestKootenay Kootenay Smelting & Trading Syndiente, Ltd., London, Eng., 31 Lombard st. L. R. C. Boyle, prest; William Balley, seey.; F. Roeser, ngr., Cap. stk, \$200,000. Shaft, furnace, water jacket, 1 stack 30872 inches, 1,500 tons, 1,500 tons, lead, silver, bullion, couper matter. Kootenay.

### MEXICO

Jamenez Chihuahua Ry. 434.	St. Louis & Zacatecas Ore Co., St. Louis Mo., P. O. Box 605. Geo. J. Waniess, agent. Samplers of gold, silver, lead and copper ores. (See St. Louis Smelling & Refining Co., St. Louis.)
MontereyNuevo Leon Ry, 436, 470,	Compania Minera Fundidora Afinadora, Patricio Milmo, prest.; Francisco Armendaiz, vprest.; Adoffo Zambranio, scey.; Reinaldo Berardi, treas.; Newton R. Wilson, mgr.; Elwood J. Wilson, supt. Pdup
***************************************	cap, \$1,000,000. 'Ca, M. F. y A. "Monterey." Silver and Iead, 6 stacks, 150,000 tons, bullion. Brand "C. M. F. y A. M." Selling agents, Engenc Kelly & Co., New York City.
**	The Great National Mexican Smelting Co., City of Mexico, Calle San Juan de Letran No. 13, Apartado

The Great National Mexican Smelling Co., City of Mexico, Calle San Junu de Letran No. 13. Apartado Postal No. 792. Sol. Giugenheim, prest; Simon Giugenheim, v.-prest; W. Guggenheim, seey, and treas; A. H. Danforth, general manager; T. S. Austin, supt. Geo. D. Barron, general agent, City of Mexico. Cap. 8th, \$1,000,000. La Grun Fundicion Nacional Mexicano, blast and roasting furnaces, 6 roasters suxió inches, 4 roasters 40x20 inches, 20,000 tons, base bullion, silver, gold, copper and lead. Brand'G. N. M. S. (6. "Selling agents, M. Guggenheim's Sons, 35 to 49 Cedar St., N. A.

S.Luis.Potosi, S.Luis.Potosi Compania Melalurgica Mexicano, New York City, 44 Pine st., X. Witherell, prest.; R. S. Towne, v.-prest.; R. A. Foster Higgins, treas.; D. C. Brown, ngr.; F. Cozen, supt. Water jacket furnace, 10 stacks 40x 120 inches, 985,000 found, lead bulbin.

# MINING, MECHANICAL ® ELECTRICAL ENGINEERS, ASSAYERS, GEOLOGISTS, METALLURGISTS, MINE INSPECTORS ® MINERAL LAND SURVEYORS

ALABAMA

	.\ 1	ABAMA	10W × AND	COUNTY	NAME
Town ANI		NAME	Prescott	, Yayapai	F. B. JACOBS, C. E., U. S. mineral surveyor, mines examined and re- ported on; desirable mining prop-
Aldrich		W. F. Aldrich, mining engineer	Tombstone	f neltise	erty for sale. Wm, F. Staunton, mining engineer.
Anniston	Callioun	William Makemson, analytical chemist and assayer.	Tueson		THEO, B. COMSTOCK, mining and
<b>34</b>		G. S. Patterson, cor. Noble and Eleventh sts., mining and civil engineer.			metallurgical engineer, reports fur- nished, acts as consulting engineer; specialty, electric applications.
Birmingham	Jefferson	Alfred F. Brainerd, 5% N. Twentieth st., mluing engineer and chemist.			$R,\ \Lambda,\ dolmson,\ U,\ S,\ surveyor-general.$
	***	N. B. Smith, chemist.			
	**	Edward A. Uchling, 4110 N. Twenty- fourth st., M.E. and furnace mgr.		AR	KANSAS
Blossburg	Jefferson	E. M. Tutwiler, mining engineer.	Batesville In	denon-tenee	W. S. ABBOT, mining engineer.
Coalburg	Jefferson	Priestley Toulmin, mining engineer, S. I. & S. Co.	Coal Hill .		E. A. KLINE, mining engineer, supt.
Fronaton .	Taffadega	Thos. Cobb King, mining engineer and superintendent.	Jenny L nd	Se bas ian	E. P. Se doy, mining and consulting engineer.
Piedmont	Calhonn	A. M. Lloyd, M. S., chemist Southern Pauxite Mining Co.	Little Rock	Pulaski	John C. Branner, state geologist.
Pratt Mines	Jefferson	Chas, E. Bowron, mining engineer.	0	1 -11111 -1111	Frank W. Gibb, 314 Markham st.,
**		Andrew J. Reilly, C. E. and M. F.			numng engineer, assayer and chemist.
University	. Tuscaloosa	U. Willard Hayes, assistant geologist U. S. Geological Survey			
		Henry McAlley, assistant state geologist and chemist.		(-11.	AFORNIA
		Wm. B. Phillips, Ph. D., professor of chemistry and metallurgy.	Alamedi	Alameda	APort Arents, 561 Railroad av., min- ing engager and metallurgist.
	**	Eugene A. Smith, state geologist.			J.W. H ggmbottom, mining engineer.
	1	LASKA	Auburn	Placer	R. L. DUNN, civil and mining en- gneer, field assistant geological survey of California, state mining
Juneau		WINTHROP W. FISK, B. S., mining engineer and goologist. Eastern of- flee, 257 Washington st., Boston, Mass. Gold properfies a specialty, mines examined and reported on; advace given on proper development of mines and machinery needed.	Berkeley Clinese Camp		Samuel B. Cristy, Piedmont av., pro- fessor mining and metallurgy, Cali- forma Finve sity.  C. A. J. WATERMAN, mining en-
Sitka		Orville T. Potter, U. S. marshal and			gate 9
		ex-ofheio surveyor-general.	French Guich		Wm. T. St. Auburn, mining engineer.
	. \ 1	NZONA	Garvanza .	nos Augeres	Wilbur F. McClure, C. E., U. S. dep- uty mineral surveyor.
Campbell Via Kingn	. Yavaj	John H. Campbell, mining engine rand chemist.	Grass Valley		Thos. L. Lockhart, analytical chemist and assayer.
Copper Basin	Aavapai	F. D. Chase, mining engineer.		14	E. A. Wiltsee, mining engineer.
Florence	Panal	ALBERT T. COLTON, M. E., U. S.	Knoxville		A. McMillan, mining engineer.
		deputy mineral surveyor; envil en- gineer and topographer; chief en- gaieer of Florence Canal Co.	Los Angeles	Los Angeles	FRANK ALDERMAN CARBUTT, 244 Ohio st., mining engineer and mining contractor. Specialty, gold
Globe	Gila	Arthur L. Walker, mining engineer.			quartz; mines examined, ores tested, processes recommended, contracts
Harrisburg	.Yuma	JOHN McCASEY, metallurgist, min- ing and mechanical engineer; mines examined and reported on.			undertaken, estimates furnished.  John Goldsworthy, M. E., Room 53 Temple Block, assayer, U. S. deputy
Mammoth	Pinal	CEORCE H. BARNHART, mining			temple Block, assayer, U. S. deputy mineral surveyor.
		engineer and metallurgist, mines ex- amined and reported on; specialty, mine management.			John E. Plater, M. E., Temple Block,
Oro Blanco	Panal	C. W. KEMPTON, mining engineer.			Altred R. Street, M. E., (3) S. Spring st., U. S. m.neral surveyor.

Town AND	COUNTY	NAME	Town and County	NAME -
Lower Lake, Nevada City, 	Nevada	L. Evans, U. S. deputy mineral surveyor. W. F. Englebright, mining engineer. CARL HESSE, assay office of J. J. Ott mining engineer; mgr. Odin	S. Francisco, S. Francisco (Continued.)	HORACE B. CALE, 40 California st., consulting, mechanical and electrical engineer; formerly professor of mechanical engineering at the Stan- toral University. Specialities, steam engineering, electric lighting and power transmission.
		CARL HESSE, assay office of J. J. Ott, mining engineer; mgr. Odin Gold & Silver Mining Co., Cal.; late supt. of the Royal Saxon Smelling Works, Friedberg, Germany; Per- kles Lead Smelting Co., Greece; Ca'r- Rann Nickel Co., Lid., and Collars del Lobo Mines, Spain; Old Tele- graph Smelting Works, Ctali; Gregory Consolidated Mining Co. and Clark's Copper Smelter, Mon- tana; La Trindad, Ltd., Mexico. Examination and management of		L. Gilson, 211 Sansome st., mining engineer and mine manager.
		kles Lead Smelting Co., Greece; Ca'r- lama Nickel Co., Ltd., and Collars del Lobo Mines, Spain; Old Tele-	·	JOHN H. HAMMOND, 124 Sansome st., civil and mining engineer.
		graph Smelting Works, Utah; Gregory Consolidated Mining Co. and Clark's Copper Smelter, Mon-		Eugene Hoefer, 1712 Stockton st., min- ing engineer and metallurgist.
		tana: La Trinidad, Ltd., Mexico, Examination and management of mines and reduction-works a spe- cialty.		CHAS. F. HOFFMANN, 307 Sansome st., unning engineer, superintendent for the Mines d'Or du Forest Hill Divide; Mines de Golden River.
**		W. W. Waggoner, U. S. deputy mineral surveyor.		WM. J. IRELAN JR., Masonic Bldg., state mineralogist State Min- ing Bureau.
**	+ 4	James J. Ott, 30 Main st., assayer.		MARK B. KERR, 402 Front st., mines
Newcastle		Wm. B. Gester, civil engineer.		MARK B. KERR, 402 Front st., mines examined and construction of rail- roads.
Nimshew		George C. Higgins, superintending engineer.	0.00	W. S. KEYES, Pacific Union Club, mining engineer, metallurgist, con-
Oakland .	.Alameda	E. W. ROBERTS, 924 Moss av., mining engineer; supt. Carsons Creek Mining Co.	**	JOHN LEECHMAN, 508 California st., gold mine management and in-
Ogilby		H. W. Blaisdell, mining engineer.		vestigations.
Ophir	. Placer	Francis H. La Vallee, practical min- ing expert.	**	c. A. LUCKHARDT, 23 Stevenson st., mining engineer, assayer and metallurgist: mines examined and
**	. **	James Oliver, mining engineer.		reported upon; practical tests unde; establishing the proper treat- ment of all ores a specialty. Estab- lished 1869. Laboratory and works,
Oroville	Butte	Thos. W. Reece, U.S. deputy mine- ral surveyor.		lished 1869. Laboratory and works, 23 Stevenson st.
Redding.	.Shasta	J. M. Gleaves, Fairview Farm, mine superintendent and civil engineer	**	D. Ernest Melliss, A. M., Ph. D., 524 Sacramento st., C. and M. E.
	**	R. G. Hart sr., mining engineer,	**	Wm. H. Pratt, U. S. surveyor-general,
**		Wm. M. James, mining superm tendent and engineer.		THOS. PRICE & SON, 524 Sacramento st., assayers, mining and metallurgical engineers.
**	**	E. A. Zoellin, cor. North and Court civil and mining engineer, assayer		Chas. D. Rhodes, 610 Commercial st., consulting engineer.
San Ardo	.Monterey	gineer and metallurgist.		C. A. Stetefeldt, care of L. Falkeman, Safe Deposit Bldg., mining engineer
San Bernardi Sai	n Bernardine			Robert Stevenson, 207 Larkin st., civil
San Diego .	San Diege	Rawlins Cadwallader, 732 Boston av. U. S. deputy mineral surveyor.		and mining engineer.
		Frank Robbins, 961 Fourth st., minin engineer and metallurgist.		R. B. SYMINCTON, 337 Seven- teenth st., mining engineer and as- sayer: engineer Black Diamond Coal Co.
**	**	Clarence D. Sprigg, 961 Fourth st assayer.	Shelby Contra Cos	ta 11. 11. Webb, mining engineer and metallurgist.
S. Francisco	.S. Francisco	<ul> <li>J. Murray Bailey, 18 Post st., minin engineer.</li> </ul>	Sulphur Creek Com	sa CEORCE V. NORTHEY, mining and mechanical engineer.
**		M. P. Boss, 309 California st., minin and milling engineer.	g	
	**	ROSS E. BROWNE, 307 Sansome st Room 14, mining and hydraul engineer.		OLORADÔ
	**	connor & crant, 303 Californ st., millwrights and engineers. (Se adv., page 9.)		the FIELD & MACNUTT, P. O. Box 563 engineers and assayers, U. S. deputy mineral surveyors.
	**	A. Archie Cunningham, 44 Chroyil Bldg., analytical and consulting chemist.	le	Ingoldsby & Arnold, 417 Main st., civi and mining engineers.
**		w. c. DODD, Union Iron Work hydraulic engineer; specialty, wate power.		in Chas, E. Anderson, mining engineer Alonzo F, Bardwell, M. E., 31s Coope av., assayer and chemist.
**		L. N. DOUCHERTY, 434 Californ st., Rooms 5 and 7, practical mine and mining engineer. Twenty-eig years' experience. Investors' con	ia "	C. Leonard Brown, 14 Keene Block deputy mineral surveyor.
		and mining engineer. Twenty-eig- years' experience. Investors' con- dential agency.	nt fi- · · · · · · · · · · · · · · · · · · ·	Edward F. Browne, 232 Lake av. mining engineer.
	.,	W. R. ECKART, Rooms 2 and 3, 2 Sansome St., mechanical engineer	17	David W. Brunton, 330 W. Main st. mining engineer.

TOWN AND COUNTY	Name	TOWN AND COUNTY	NAME
Aspen Pitkin	FRANK BULKLEY, mining engineer, gen. mgr. Bushwacker Mining	Denver Arapahoe (Continued,)	E. C. Burlingame, 1736 Lawrence st. assayer and chemist.
	EREDERICK C. BULKLEY, 200 W		ARTHUR CHANUTE, vprest Globe Smelting & Refining Co.
	Mani St., mining engineer, gen, mgr. The Aspen Mining & Smelling Co., gen, mgr. The Roaring Fork Min- ing Co.		C. D. CHANUTE, 1118 Eighteentl st., assayer; samples sent by maj will receive prompt and carefu attention.
**	Stuart Croasdale, 600 W. Main st., chemist and assayer.	0	CHASE & RANK, 516 Mining Ex- change Bldg, numing engineers and U.S. deputy mineral surveyors
	dosef Eichhorn, 420 and 422 Durant av., assayer and chemist.		U. S. deputy mineral surveyors location, patent and underground surveys, etc.
	W. J. Elmendorf, 420 and 422 Durant av., assayer and chemist.		FRED A. COX, 355 Club Bldg., min ing engineer.
	Phil. C. Gallaher, P. O. Box 344, chemist and assayer.		Wm. C. Davis, 1818 Grant av. mechanical engineer.
	A. W. HARE, 412 E. Hopkins st., chemist and assayer.		CEORCE K. FISHER, 61 Tabor Block, consulting mechanical en
	HAYES & WILCOX, Aspen Block, mining engineers, U. S. mineral surveyors.		CEORGE K. FISHER, 61 Tabot Block, consulting mechanical en gineer; specialties, mining, mili ing and smelting construction Deriver reterences, Gobie Smelt ing & Islamine Co., Omaha & Gran Smelter, Smelting Work, Tabor In Public Sampling Work, Tabor In vestment Co., Colorado Fron Works
	George Henry Hewitt, mining engl- neer.		Smelting & Refining Co., Denver Public Sampling Works, Tabor In vestment Co., Colorado Iron Works
•	CEORGE W. LLOYD, Keene Block, mining engineer.		H. Van F. Furman, 510 People's Bank Bldg., M. E. and metallurgist
••	Charles W. Miller, P. O. Box 40t, U. S. deputy mineral surveyor.	**	HARDING & CO., 1752 Cartis st., P O. Box 1445, assayers; western agents for eastern and foreign
	W. E. NEWBERRY, mining engineer.		copper smelters.
	J. M. B. PARRY, 234 Hyman av., metallurgy and mining engineering.		<ul> <li>G. C. Hewett, 614 Boston Bldg., min- ing engineer.</li> <li>E. C. Humphrey, U. S. surveyor-gen</li> </ul>
	Henry Paul, M. E., mgr. Aspen mine, J. W. Richards, 635-8, Monarch 81.,		eral.
	assayer and analytical chemist.		JONES & JONES, 1821 Arapahor st., assayers and chemists.
	Charles Wells, U. S. deputy mineral surveyor.		KELLOGG, WARNER & CO., min- ing engineers, and brokers, mine- and mining stocks bought and sold
Cotorado Springs - El Paso	A. D. JONES, mining engineer.  Richard Newell jr., mgr. Matoa Gold Mining Co.		and mining stocks longht and sold companies organized and promoted reports furnished and ratings given Correspondence solicited. Cable address, "Kekionga, Denver."
	Giles Otis Pearce, 513 Huerfano st., mining engineer and assayer.		Edmund B. Kirby, 9 Windsor Hote Block, M. E. and metallurgist.
	Field & Macimtt (see Amethyst).		Charles F. Lacombe, cor. Seventeentl and Glenarm, electrical and min- ing engancer.
Cripple Creek El Paso	CRAIGUE & KEITH, mining engineers, U. S. deputy mineral surveyors; patent work a specialty, P. O. Box 108, Cripple Creek Mining		Benj. B. Lawrence, Duff Block, con sulfing mining engineer.
	O. Box 108, Cripple Creek Mining District.		Chas, II. Livingstone, 3555 Marion 8t, metallurgist Omaha & Grant Smelling Co.
"	Albert D. Freeman, cor. Bennett av. and Second st., surveyor.		John McNeil, inspector of mines and mining englueer.
	Freeman, Sperry & Co., cor. Second st. and Bennett av., surveyors and civil engineers.		ORLANDO METCALF, M. E., sor Boston Bidg., anthracite coal, roof ing slate.
**	Trying & Co., 306 - Bennett av., sur- veying and mines.		DAVID C. MILLER, 1336 Caylord St., mining engineer.
	PAGE & NOBLE, P. O. Box 228 (see Denver), mining engineers; examinations and reports of mines.		PACE & NOBLE, P. O. Box 2089 mining engineers: examinations and reports on mines. Also Box 228, Leadville, and Box 228, Cripple Creek, Colo.
	Edward R. Warren, United States deputy mineral surveyor,		ALFRED RICARD, 1279 Pearl St. numing engineer, mines examined and reported on superatendence
Delta Delta	John A. Curtis, civil and hydraulic engineer and surveyor.		ALFRED RICARD, 1279 Pearl St. numing engineer, mines examine and reported on, superattendence and management of mines and reduction works, advices on mining hoisting, pumping and concentrating plants, Correspondents in England and France.
Denver Arapahoe	William S. Ackerman, 1561 Emerson av., mechanical engineer,		gland and France.  THEO. E. SCHWARZ, Seventeentl
	PHILIP ARCALL, 549 Boston Bldg, mining and mechanical engineer; examination of mines, designs for mining plants and ore dressing works, mine management, etc. Cable address, "Argall," Denver.		THEO, E. SCHWARZ, Seventeentl and Arapahoe 88s., Room 4 Bank Block, mining tengueer; specially mine management, mining opera tions planned and directed, exper investigations; represents mon-rost dent mine owners. Cable address "Schwarz," Benyer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Denver , Arapahoe (Continued.)	SHEPARD & SEARING, Mining Exchange, mechanical and elec- trical engineers; expert work in		George Holland, 108 E. Fourth st., U. S. deputy mineral surveyor.
	both branches.		Taylor Holt, 220 W. Ninth st., assayer and chemist Elgin Smelling Co.
	Edward S. Snell, 2352 Race st., U. S. chief examiner mineral surveys.		Charles J. Moore, 501 Harrison av., U. S. mineral surveyor.
	P. H. Van Diest, 1230 Washington av., mining engineer.		SEELEY W. MUDD, P. O. Box 564, mining engineer and metallurgist; mgr. Small Hopes Consolidated Mining Co., Leadville Consolidated Mining Co. and Boreel Mining Co.
	Theo, F. Van Wagenen, 50 Montana av., mining engineer.		Mining Co., Leadville Consolidated Mining Co. and Boreel Mining Co.
	HENRY A. VEZIN, 51 Tabor Block, mining and mechanical engineer; examination of mines; designs for mining plants, and for smelting and		Lonis S. Noble, P. O. Box 228, mining engineer.
	dressing works.  Vonschulz & Low, 1633 Larimer st., assayers.		PACE & NOBLE, P.O. Box 228 (See Denver), mining engineers; exam- inations and reports of mines,
**			W. F. Patrick, 114 E. Eighth st., min- ing engineer.
	waters bros,, Sheridan Bldg., mining and mechanical engineers. (See adv., page 9.)		Howard Platt, U. S. deputy mineral surveyor.
	F. H. WHITING, 33 Jacobson Bldg., mechanical engineer; steam and electric plants and railways a spe- cialty. Correspondence solicited.		Henry M. Post, 111 E. Fourth st., as- sayer and chemist.
		"	Robert D. Rhodes, supt. Arkansas Valley Smelting Works.
	HENRY E. WOOD, 1744 Arapalice st., assayer; established in 1878; specialty, gold and silver ores.		JAMES A. SHINN, mining engineer.
44	W. C. WYNKOOP, 307 Mining Exchange, mining engineer. Reference, Union National Bank, Denver.	**	W. L. G. Smith, 113 E. Fifth st., U. S. deputy surveyor.
Durango La Plata	ERNEST J. H. AMY, mining engi-	"· · · · · · · · · · · · · · · · · · ·	St. assayer and chemist; samples by mail or express receive prompt
Fulford . Eagle	neer. Glenn & Fletcher, assayers.		attention.  TINCLEY S. WOOD, mining engineer and mine operator.
Georgetown Clear Creek	A. E. Chase, U. S. mineral surveyor.		
0	Ernest Le Neve Foster, mining and consulting engineer.		A. J. Mitchell, civil and mining en- gineer.
	Geo, E. Marsh, mining engineer.	Ouray . Ouray	F. L. Biddlecom, civil and mining engineer.
	Frank A. Maxwell, 405 Eighth st., nuning engineer.	**	G. E. Kedzie, mining engineer and state geologist.
., .,	PORTER P. WHEATON, civil engineer, U. S. deputy mineral surveyor; examines and reports upon	Pueblo Pueblo	George Mills, mining engineer. W. H. Aldridge, P. O. Box 80, metal-
	Inines.	гцевю , гцевю	lurgist and mining engineer.
Golden . Jefferson	W. B. Milliken, mining and metallur- gical engineer.		P. B. de Schwelnitz, 211 Broadway, mechanical engineer.
	M. T. Morrell, U. S. deputy mineral surveyor.	**	Albert I. Goodell, M. E., 720 Santa Fe av., assayer and chemist.
A Company of Company	School of Mines, Regis Chauvenet, pr.	**	VICTOR C. HILLS, 305-307 Central Blk., mining engineer; specialties, mining and hydraulic engineering;
Granite Chaftee	B. STANLEY REVETT, M. E., gen. mgr. Twm Lakes Hydraulie Gold Mining Syndicate.		U. S. deputy mineral surveyor.
Guston Onray	Herbert Warne, mining engineer and assayer.		E. P. Matthewson, 1301 E. Eighth st., mining engineer and metallurgist.
Idaho Springs, Clear Creek	Walter H. Wiley, mining engineer.	*	H. D. Williams, 1003 Spruce st., chem- ist and metallurgist.
	Geo, W. Oates, P. O. Box 13, mining engineer.		J. HOWARD WILSON, assayer and chemist, 306 Santa Fe av.: assays given and treatment of ores fur-
Leadville .Lake	Max Bochmer, P. O. Box 765, mining engineer.	Rien Holores	nished.
	William Braden, 204 W. Fitth st., en- gmeer.		Frank D. Aller, mining engineer, metallargist and chemist.  Jesse F. McDonald, maning engineer.
	S. E. Bretherton, P. O. Box 234, metal- lurgist.	Romley Chaftee	J. H. Seek, mining engineer and metal- lurgist.
*	Thomas Jay Cox, 13 Quincy Blk., U. S. naneral surveyor.	San Bernardo - San Mignel	ARTHUR B. LITCHFIELD, mine manager and mining engineer, mines examined and reported on; eighteen years' experience; special ex
	Francis T. Freeland, P. O. Box 23, mining and mechanical engineer.		earry, mine and mill management.
	Edwin N. Hawkins, mining engineer and metallurgist.	San Luis	Edmond C. Van Diest, mining and civil engineer.
	Clarence Hersey, 110 E. Fifth st., as- sayer and chemist.	Silver CliffCuster	August Koppe, U. S. deputy mineral surveyor.

	NAME	TOWN AND C	OUNTY	NAME
Silver Cliff,, $Custer$ $(Continued_{+})$	CARL WULSTEN, P.O. Box 53, civil and mining engineer and assayer; manager Basslek Contact Mining to.	De Lamar	Owyhee	J. A. PACK, mining engineer, D. Lamar Mining Co., Ltd.
	Thomas H. Kane, mining engineer,	Halley	.Alturas	F. C. MANDELL, mining and elvi engineer, United States deput mineral surveyor.
**	Edward G. Stoiber, P. O. Box 129, mining engineer Silver Lake Mines.	Horseshoe Bend		A. L. Rinearson, civil and irrigation engineer,
Telluride San Miguel	George L. Andrus, mill superintendent Sheridan Mining Co.	Liberty 1	Bear Lake	Edwin N. Austin, U. S. deputy min eral surveyor.
	F. J. Kramer, mining engineer. Henry C. Lay, civil and mining engineer.	Mountain Home	.Elmore	Samuel G. Rhoades, U. S. deput mineral surveyor.
C4/ 12 72		Pend d'Oreille		JAMES E. DYKE, mining engineer
CONT	NECTICUT	Rathdrum	Kootena	A. D. Robinson, civil and mining en gineer.
	Wilham P. Blake, geologist, mineral- ogist and mining engineer.	Silver City Wallace .	Owyhee Shoshone	Lincoln Taylor, surveyor. George A., Trask, Cedar st., U. S
"	A. J. Du Bois, professor civil engineer- ing, Sheffield Scientific School.		37	deputy mineral surveyor.
**	H. S. Williams, professor of geology, Vale College.	W: rdner	Shoshone	N. WITTNER, Box 222, mining en gineer.  E. W. Dowllov, M. E. assistant page
DISTRICT	OF COLUMBIA			F. W. Bradley, M. F., assistant mgr Bunker Hall Sullivan mines.
Washington . D. C.	DAVID T. DAY, geologist, in charge mining dayson, U. S. Geological			Victor M. Clement, mining engineer and metallurgist.
	Survey.			W. Clayton Miller, mining engineer deputy numeral surveyor.
	Frederic P. Dewey, 621 F.St. N. W., chemist and metallurgist.		11.	LINOIS
41	GEO. H. ELDRIDGE, U. S. Geo- logical Survey, economic geologist	Alton .	Mad (son	Walton Rutledge, inspector of mines tourth district.
	FRANCIS R. FAVA, mining engineer. STORY B. LADD, mining engineer.	Alto Pass	Union	HENRY C. FREEMAN, civil and mining engineer and metallurgist, reports on mines and treatment of
	F. H. Newell, mining engineer and	Aurora		<ul> <li>e. F. ENRICH, mining and metal- lurgical engineer.</li> </ul>
	geologist U. S. Geological Survey. E. W. Parker, 1330 F. St. N. W., statist can U. S. Geological Survey.			WM. H. VAN ARSDALE, M. E. Vprest, Cheago-Aurora, Smelting Co.
	Claud : A. O. Rosell, 1431 Ninth st. N. W., examiner U. S. patent-office.	Blue Island	Cook	Co.  H. L. BRIDGEMAN, E. M., supt Clinergo Copper Renning Co.
151	ORIDA	Braidwood		Quint'n Clark, inspector of min's first district.
		Chicago .	Cook	ASKEW & RUSSELL, P. O. Box (26, 0) ethical engineers, mining en- ion insend metallurgists.
	CHARLES P. TURNER, chemist mineralogist, mining engine r and phosphate expert, gen, supt, of suxminer flyer. Phosphate (b), phosphate lands examined, pitted end of the production of the control of the			WM. BARACWANATH & SON, To West Division St., maining en
	and reported upon.			PROF. P. D. BARNHART, Sara togal Hotel, mining engineer and
	B. L. Baldwin, mining engineer. J. Hopley Veaton, P. O. Box 521, C. E.			metallurgist.
	W. S. WARNER, mining engine r, Florida Phosphate Co., Ltd.			Josia Ir C. Bartlett, M. E., 200 Adams 81.
	dolm C. Sloeum, U. S. surveyor-gen.			<ol> <li>muel L. Brown, Ninety-fourth and Lake Shore, asst. supt. National Smelting &amp; Refining Co.</li> </ol>
C415	CORGIA			J. S. CAREY, 1539 Unity Bldg., chemist, sampling and analysis of ores, adjuniterals, qualitative and quant
Atlanta Fulton .	d. D. Caldon, 14 Kumball House, min- eralogist and mining engineer.			
	Hall Brothers, 67 Gate City National Bank Building, civil, mining and hydrautic engineers.			waters, fuels, products and feel- neel materiels, etc. Graduate of 8h dheld and Ausonius chemical boratory, Weisbaden, Ger. Re 1 ers to W. J. Rattle, mining en -meer, Cleveland, Ohio.
11	DATIO			CEORGE CUTTER, (29 The Rook my, electrical engineer. See adv., tage 12.
	John B. Hastings, C. E. and M. E.			Fownsend V. Church, Rookery, chief elemist Illinois Steel Co.
Boise City Ada	ordin by trastings, C. E. and A. E.			
	W. H. Pettit, U. S. surveyor-general. F. R. CULBERTSON, mining engineer.			Theodore Dengler, 512 Webster av., nuning and civil engineering.

TOWN AND CO	UNTY	NAME	TOWN AND COUNTY	Name
Chicago.	Cook	J. W. EDWARDS, 87 Washington 81, 312, 313, 314 U. S. Express Bidg., mining engineer.	Petersburg Menard	Frank V. Alkire, First and Market, mining and civil engineer.
4+	**	F. H. Foote, 5815 Madison av., supt. Illinois Steel Co.'s furnaces.	South Chicago. Cook	Geo. T. Dougherty, Ninety-fourth st. and Lake Shore, chemist and as- sayer.
**	**	CILBERT H. COODHUE, Room 1017 Chamber of Commerce Bidg., analytical chemist and mining engineer.	· · ·	F. B. F. Rhodes, M. E., Ninety-fourth st, and Lake Shore, metallurgist and superintendent.
**	**	Fred A. Gritzner, 145 Loomis st., chemist, assayer and mining en-		Jasper Whiting, metallurgist.
**		gineer.  ALFRED CUILLAUME, 215 Dear-	SpringfieldSangamon	John Keay, 1417 S. Grand av., mining engineer.
		ALFRED CUILLAUME, 215 Dear- born st. electrical and mining en- gineer, assayer and analytical chemist. (See adv., page 11.)	44	Joshua Lindahl, state geologist.  A. H. Worthen, director geological
		Victor C. Heikes, 4619 Ellis av., as- sayer and chemist.		survey of Illinois.
**				E. A. Graves, M. E., 308 East Main st.  A. A. CHARLTON, mining engineer.
		william Hoskins, 81 S. Clark st., assayer, analytical chemist, mining engineer. (See adv., page 11.)		
	**	J. M. Howells, 171 La Salle st., hydraulic engineer.	1.5	TDIANA
	**	E. E. JOHNSON, C. E. and M. E., S. E. cor. Canal and Randolph sts., hydraulic and mechanical engineer.	Brazil Clay	P. J. Mooney, mining engineer Brazil Block Coal Co.
**		Karl L. Lehmann, 113 Adams st., civil engineer and architect.		OliverWilkins, 10 Meridian st., mining and eivil engineer.
		John S. MacGinniss, 108 and 110 E. Randolph st., mining engineer.		Geo, Minto, civil and mining ongineer, Jas. D. Saunders, Court-House Bldg., civil and mining engineer.
	••	MANNS & TATARIAN, assayers and mining experts. Laboratory and office 104 and 107, 163 Randolph st. Mines examined and reports	Indianapolis Marion	Maurice Thompson, state geologist. John R. Troutman, Lock Box 43, mining and mechanical engineer.
		made for owners or purchasers; estimates for improvements.		IÔWA
**	**	MARINER & HOSKINS, 81 S. Clark st., assayers, chemists and mining engineers. (See adv., page 9.)	Des Moines Polk	Thomas Binks, mine inspector, first district.
**		MILTON MOSS, 4619 Ellis av., min- mg engmeer, metallurgist.; mines		Floyd Davis, E. M., Ph. D., state chemist and mining engineer.
**		examined.  Nelson W. Perry, 823 Monadnock Bidg., electrical and mining engineer.		James Gildroy, mine inspector, second district.
		John N. Pott, 224 N. Union st., civil	**	Morgan G. Thomas, mine inspector, third district.
		and mining engineer.  RATTLE, NYE & HOLLIS, 1232 The	Ottimiwa Wapello	J. T. Beard, P. O. Box 318, mining and civil engineer.
		mining enginesrs (also Cleveland, O.)	_	
**		JOHN A.ROEBLING'S SONS CO., 171 Lake st., mining engineers.		ANSAS
	**	C. H. Rose, 125 S. Sangamon st., min- ing engineer.	Argentine Wyandotte	gmeer and metallurgist. Perma- nent address, Maryville, Nodaway
		Frank A. Ross, Fulton and Union sts., mining engineer.		Cital Mari
**		John K. Seifert, 129 Dearborn St., civil and mining engineer.	*	John H. Allen, supt. Kansas City Smelting & Refining Co.
**		Wm. L. Smith, 100 Washington st., eivil engineer and contractor.	Galena Cherokee	John B. Hodgdon, Main st., Stone's Bldg., civil and mining engineer.
		ceorce w. STURTEVANT JR., sot Chamber of Commerce Bldg., civil and hydraulic engineer; special	Lyons Rice	JESSE AINSWORTH, M. E., supt. Lyons Rock Salt Co.
		eivil and hydraulic engineer; special attention given to development of water powers for hydraulic mining, city water supplies, etc.	ScammonCherokee	John T. Stewart, state inspector of coal mines.
	**	Jacob T. Wainwright, P. O. Box 434, metallurgical engineer.	KE	NTUCKY ==
		WALBURN-SWENSON CO., 1520	Ashland Boyd	W. H. Kemler, chemist Ashland Steel Co.
Galva	Hapmy	Monamork Block, assay knoora- tory for festing ores, (See adv., page 537.)  Thompson Hudson inspector of mines		MEYER SCHAMBERC, analytical chemist and mining engineer.
Marissa		Thompson Hudson, inspector of mines, second district.	Central City , Muhlenberg	
		John G. Massie, inspector of mines, fifth district.		C. J. Norwood, inspector of mines.
Peoria	Peoria	James Freer, inspector of mines, third district.	Frenchburg, Menifee	W. T. Dennis, M. E., Indian Creek Coal Mines.

TOWN AND COUNTY	Name	Town and	COUNTY	Name
Grand Rivers, Livingston	WM. B. PHILLIPS, metallurgist and mining engineer.	Boston (Contin	suffolk wed.	Henry J. Williams, 161 Tremont st., chemical engineer.
Middlesboro Bell	J. C. McK. Richardson, mining engineer.	Dorehester	. Suffolk	erval av., mining engineer and metallurgist; specialty, copper.
	JOHN SANDERSON, analytical chemist and assayer.	Reading	Middlesex	W. H. Nash, mining engineer, as- sayer and metallurgist.
** ***	A. R. Strachan, mining engineer and metallurgist.			
Olympia _ Bath	Winchester Dickerson, mining engineer,		2110	CHIGAN
Owensboro, Daviess	Alsop & Griswold, Fourth and Fredrica sts., civil and mining engineers.	Ann Arbor	Washtenaw	Wm. H. Pettee, M. E., professor in University of Michigam.
Peach Orchard Lawrence	H. H. Chamberlayne, mining engineer.	Bay City		John Kanall, 822 Wilson St., mining engineer.
	F. E. Jackson, civil engineer and surveyor.	Bessemer	Cogebie	Clarence M. Boss, mining engineer, district mine inspector.
Whitesville Daviess	Charles Wilkey, mining engineer and metalbirgist.	Calumet	Houghton	Frederick N. Bosson, mining and
LO	UISIANA	Champion	Marquette	G. S. Barber, chemist, Champion 1ron Co.
New Orleans Orleans	Carondelet st., meedianical and electrical engineer; gravity planes; wire rone handary	Crystal Falls		Julius Kellerschon, mining engineer and chemist.
	electrical engineer; gravity planes; wire rope handage.	Detroit	Wayne	J. V. CAMPBELL & CO., 27 barned J. W., mining engineers.
**	F. F. Claussen, U. S. mint, assayer, Chas, B. Wifson, U. S. surveyor-gen,			COURTIS & SMITH, 27 Larned st. W., mining and metallingical engi- neers.
	George O. Elms, civil engineer.			Jesse M. Smith, 36 Moffat Block, mechanical and electrical engi-
MA	RYLAND			D. Torrey, 66 Washington av., mmmg engineer.
Baltimore . Baltimore	Wilham Glenn, 1348 Block st., min- ing engineer and chemist.	Houghton	Houghton	
	Milnor P. Paret, 210 E. Lexington st., eivil engineer.		3.6	CEORCE A. KOENIC, Ph. D., care of Michigan School of Mines, profess or of chemistry. Chemical miner-
	Duncan Sinclair, mining engineer.  R. T. Browning, state mine hispector.			or of chemistry. Chemical-immer- alogical examination of drill-cores and sands, all kinds of analyses.
	David Baker, mining*engineer.			Fred T. Sharpless, Michigan School of Mines, metallurgical chemist.
	Francis T. Peacock, P. O. Box 77, me- channeal engineer.			of Mines, metallurgical chemist.  M. E. Wadsworth, state geologist and director. Machigan School of Mines.
	Arnold K. Reese, 408 East B st., min- ing enganeer.	Iron Mountain	i "Diekinson	E. R. Brewster, 306 W. Brown st.,
* "	Nathaniel G. Robertson, mining engi- neer.			analytical chemist.  Arthur Uddenberg, 110 E. Brown St., analyt cal chemist and assayer.
	Morris Weis, mining engineer.	Ironw 101	. Gogebie	
MASS	ACHUSETTS			E. P. JENNINGS, McLeod st., analytem chemist and mining en- gineer; reports on Lake Superior from properties; sampling of ore cargoes a specially.
BostonSuffolk	ARTHUR B. BROWNE, 119 Water st., hunning engineer, assayer and chemist.			N. O. LAWTON, care of Curry Hotel, nining engineer, Penokee & Gogelie Consolidated Mines
	Davenport & Williams, 161 Tremont st., chemical engineers.	Ishpeming	Mi rquitte	E. F. Bradt, 115 W. Terrace st., min- ing engineer and chemist.
	WINTHROP W. FISK, B. S., 257 Washington St., imming engineer			Ralph B. Green, 432 S. Pine St., analytical chemist.
	WINTHROP W. FISK, B. S. 237 Washington St., minuge engineer and geologist. Western office and aboratory, Junean, Alaska. Gold properties a speciality; mines ex- amined and reported on; advice- given on proper development of nines and machinery needed.			8. A. Mintz, 600 E. High st., analytical chemist and assay r.
	given on proper development of mines and machinery needed.			James R. Thompson, 424 Pine st., maning engineer.
	A. W. & F. B. Locke, 53 State st., mining engineers.	Latwton		Charles D. Lawton, commissioner of mineral statistics.
	CHARLES O. PARSONS, 77 State st., mining engineer.	Marquette	Marquette	James E. Jophing, civil and mining enginees.
	Stephen P. Shurples, S. B., 13 Broad st., assayer and analytical chemist.			Richard A. Parker, consulting mining engineer.
	George F. Swain, care of Institute of Technology, c.v.il engineer.	Negaunee,	. Marquette	Frank Drake, P. O. Box 96, mining engageer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	Wm. E. Saunders, mining and civil engineer.	Chadwick	EUCENE M. COLE, F. G. S., mining and mechanical engineer; consulting engineer Easley Mmes, etc.
Ontonagon Ontonagon	Alex, P. Meads, mining engineer and assayer.	Desloge St. François	John M. Desloge, mining engineer.
	R. M. Edwards, mining engineer.	Jefferson CityCole	dames D. Robertson, E. M., assistant Missouri geological survey.
Sebewaing Huron	Lewis Stockett, mining engineer.		Arthur Winslow, State Capitot, state geologist of Missouri.
MIN	XXESOTA		C. C. Woodson, state mine inspector.
Duluth St. Louis	H. B. Crowl, 631 Chamber of Com- merce Bldg., chemist and assayer.	Joplin Jasper	W. P. Cleveland, A. C., cor. Fourth and Joplin sts., chemist.
			A. F. Downan, Herald Blk., C. E.
	CHARLES F. HOWE, consulting and mining engineer. Office and laboratory, Chamber of Commerce, Dulatti, Minn. References: D. H. Racon, prest. Minnesota fron Co., Checigo, Hl.; Joseph S. Fay Jr., prest. Lake Superior Iron Co., Boston, Mass.: Marine National Bank, Dulatti, Minn.	" " " "	F. C. FLORANCE, 408 Joplin st., mining engineer. ERIC HEBBURC, Box 501, practical engineer, mining, mechanic, etcertic; plans and erection of mining plants; distance transmission; properties examined and reported on.
	T. L. LAMMERS, 431 Chamber of Commerce, analytical and consult- ing chemist; ores sampled and as- sayed; uning properties examined		J. R. HOLIBAUCH, 310 Moffet av., mining engineer; complete maps of the Joptin mining district.
	and reported on.	**	JAMES P. MEAD, mining engineer.
	W. C. LA RUE, M. E., 307 Burrows Bidg., numng and ganister quarry- mg.	Maryville Nodaway	curtis alexander, mining engineer and metallurgist. (See also Argentine, Kan.)
	FRANK TEDFORD, 610 Lyceum Bldg., mming engineer.		Bernard H. Johnston, M. E. J. T. Mouell, metalbirgist to Mine la
Merritt St. Louis	E. J. Longyear, explorer and M. E.	PalmerWashington	Motte.  Joseph W. Belfield, mining engineer.
Minneapolis Hennepin	WM. R. APPLEBY, 911 Fifth st. S. E., professor of mining and met- allurgy in the College of Engineer- ing, Metallurgy and the Mechanic		School of Mines of the University of Missourl, Richard H. Jesse, prest.; Thos. L. Rubey, secy.
·	Arts.  James A. Dodge, 813 Fifth st. S. E., protessor of chemistry in State Uni-	St. Louis St. Louis	JOSEPH P. CAZZAN, P. O. Box 605, mining engineer and metallur- gist.
	versity.		H. Aug. Hunicke, 1219 Mississippi av., mining engineer and chemist.
**	Christopher W. Hall, 803 University av. S., dean College of Engineering and Metallurgy.	"	Philip N. Moore, 55 Laclede Bldg., geologist and mining engineer,
*	HORACE V. WINCHELL, 1306 S. E. Seventh st., geologist, chemist and mining expert.	4 "	J. W. NIER, M. E., Room 3 Equitable Bidg., engineer and designer of mill- ing and mining plants.
9	N. H. Winchell, state geologist.	**	Hiram Phillips, \$10 Olive st., consult- ing civil and mining engineer.
St. Paul Hamsey	c. BRINCKERHOFF, 342 Cedar st., civil and mining engineer.	"	W. B. Potter, 1225 and 1227 Spruce st., mining engineer and metallurgist.
	James Compton, U. S. surveyor-gen.		otto rissman, 1225 Spruce st., mining engineer St. Lonis Sam- pling & Testing Works.
West Duluth St. Louis	N. LEHMEN, Ph. D., 133 E. Fifth st., analytical and technical chemist. JOHN H. W. A. KREY, Silver Pik.,	0 - 1 - 1 - 1 - 1 - 0	Albert F. Schneider, 3883 Washington av., civil and mining engineer, metallurgist.
	JOHN H. W. A. KREY, Silver Blk., civil engineer; city engineer West- Duluth; opportunities for invest- ments in mining and timber lands.		Thos. R. Stockett jr., Fourth and Olive sts., mining engineer.
MIS	SISSIPPI		HERBERT STRICKLAND, 1321 Garrison av., consulting mining engineer and metallurgist.
VicksburgWarren	R. S. Buck jr., civil and mining engineer.		ARTHUR THACHER, 1227 Spruce st., mining engineer and metallur- gist.
			B. B. THAYER, care E. M. Tesson. West Forest Park, mining engineer.
M1	SSOURI	**	H. A. Wheeler, Washington Univer- sity, consulting mining engineer.
Aurora Lawrence	E. J. Slattery, engineer of Bonanza mines.	Webb City Jusper	O. Rees, civil engineer and mine surveyor.
	C. B. Parsons, mining engineer.	2.17	DATE I NO
**	Gust Setz, mining engineer.		ONTANA
	T. J. Shelton, W. Main st., mining engineer.		A. P. Smith, mining engineer.
Carthage Jasper	W. H. Scamon, Regan pl., mining en- gineer.	Bozeman Gallatin	C. M. Thorpe, C. E., City Hall, U. S. deputy mineral surveyor.

Town and County	NAME	TOWN AND COUNTY	AMI
Butte Silver Bow	Baker & Harper, civil and mining enganeers.	Helena, Lewis and Carke Continued.	derry Kingman, 14° <sub>2</sub> 8, Main st., chemist and assayer,
	F. W. Blackford, City Hall, mining and e.vil engineer.		Arthur G. Lombard, C. E., 43 Montana National Bank Bldg., U. S. dep- uty min cral surveyor.
	Robert G. Brown, S. W. cor. Broadway and Main St., mining engineer.		W. T. MENDENHALL
	Baron R. de Batz, mining engineer,		on names throughout the west, and
	B. C. W. EVANS, 16 N. Main st., maning engineer.		on mines throughout the west, and estimates furnished with propil- ness and fidelity. Twenty years' ex- perience in the mining sections throughout the west and Old Mex-
**	C. W. COODALE, mining engineer.		ico, Correspondence sonened.
	F. AUG. HEINZE, M. E., P. O. Box 428, mgr. Montana Ore Purchasing Co. and of the Liquidator Con- centrating and Sampling Works Co.		A. Neutstaedter, mining and civil engineer.  John N. O'Brien, 110 Grand st., min-
	Hermann A. Keller, P. O. Box 233, maning engineer.		ing engmeer.  Reeder & Helmick, Pittsburg Block,
	Wm, H. Keller, P. O. Box 233, mining ngmeer.		ervil and mining engineers.
			Frank L. Sizer, Atlas Block, mining and hydraulic engineer.
	Albert B. Knight, P. O. Box 211, U. S. deputy mineral surveyor.  G. A. Komberg, 29 W. Granite St.		C. C. SWALLOW, M. E., 191. Main st., mines reported and negotiated. State mine inspector, and twenty- nine years' experience in mines of
	G. A. Komberg, 20 W. Granite St., civil and mining engineer.  JAMES MACFARLANE, Anaconductors		nine years' experience in mines of Montana.
	mine office, civil and mining engi- neer; chief ngineer Anaconda M n-		A. B. Wood, mining engineer,
	ing Co.	L'vin-ston Perk	Harvey L. Glenn, Vellowstone, assayer and chemist.
	Albert Moog, mining engineer.		Charles Tappan, U. S. deputy mineral
	JOHN B. STEICER, M. E., U. S. capity nuneral surveyor; expert examination and reports of mines	Marysydle Lows & Cl. Re-	surveyor.  James II, Henley, mining engineer.
	and reduction works,	Missonia Missonia	Fairchild & Dickinson, First National
	Chas, Wade Stickney, mining en-		B: nk Bldg., mining engineers.
	Geo, A. Packard, M. E., metallurgist	Noticet Medalice	ROBERT M. RAYMOND, M. E., supt. Dannond "R" Whining Co.
Deer Lodge - Deer Lodge	Engineering College of Montana.	Feweville Madison	J. M. Page, M. E., U. S. deputy min- eral surveyor.
	F. W. Triphagen, Ph. D., F. C. S., Montana School of Mines, analytical chemist, assayer and metallurgist.	Phillipsin: Their Lodg.	Frank Ringeling, P. O. Box 331, min- ing (ngineer,
E. Helena Lewis & Cl. Ske	Walter H. Aldrida's mining engineer and metallic gist.		C. W. Mead, M. E., U. S. deputy surveyor and assayer.
Elkhornletterson	C. A. MOLSON, mining engineer.		Wm, N. Ten Eyek, assayer.
	R. T. Woliston, metallurgist, chemist and mining expert.	Revenue Madison Via Norres.	John K. Turner, mining engineer and chemist.
	Frank Longmaid, M. F. and assayer.	Vo_ce Meagher	LOUIS PEPIN, mining engineer.
	J. C. Pyle, assayer and M. E. William E. Kern, 301 Central av., min-	N	EVADA
	ing engineer.	Austin . Lander	T. H. CEORGE, U. S. deputy mineral surveyor, practical mining engineer. Mines examined and reported on.
	FRANK KLEPETKO, metallurgist and mining engineer; supt. Great Falls Works and of Boston & Mon- tana Consolidated Copper & Silver Mining Co.		Mines examined and reported on, Jacob H. Troison, U. S. deputy min- eral surveyor.
Helena Lew's & Clarke	John R. Bapty, 810 Getehell St., as- saver.	Battle Mountain Lander	JAMES F. DENNIS, mining engineer.
	BAYLISS & ROBINSON, mining		George Ernst, M. and C. E.
	engineers, mining and consuming engineers, mining engineers for the Northern Papella Pe		Wm. H. Shockley, mining engineer,
	BAYLISS & ROBINSON, mining engineers, mining and consulting engineers, mining and consulting engineers, in mining engineers for the Northern Pacific Ry., consulting engineers for the Montana Co., Ltd., Marysville, Mont., 34 Old Brood St., London, E. C., Helena, Montana, Report on mines for London or America.	b Eureka	Walter S. Long, Main st., C. E. John Parsly, M.E., Main st., U.S. deputy mineral surveyor,
		Lovelocks . Humboldt	
	MILES J. CAVANAUCH, Room 9 Battey Block, naming engineer.		H. H. HUTCHINS, analytical chem- ist and mining engineer, mineral property examiner: reducing and refining; antimoy a specialty, en- gineer and mgr. of Sulherland Anti- mony Mines and Reduction Works, Lovelocks, Nev.
	MICHAEL COONEY, P. O. Box 265, naming engineer.		mony Mines and Reduction Works, Lovelocks, Nev.
	Geo, O. Eafon, U. S. surveyor-general.		E. L. Godbe, metallurgist and assayer.
	Hovey & Bickel, Merchants' National Bank Bldg., civil and mining en- gineers.	**	F. P. Swindler, U. S. deputy mineral surveyor.
	Walter 8, Kelley, mining engineer,	Washoe	Geo. F. Turrittin, U. S. surveyor-gen.

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TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
	IAMPSHIRE	Mogollon Socorro	P. KIRKECAN, mining and me- channeal engineer; specialty, min- ing and reduction low grade gold, silver and tin ores.
East Nottingham Rockingham	Samuel L. Hills, mining engineer.		B. A. Hoopes, assayer and miner,
Exeter Rockingham	H.C. Spaulding, P.O. Box 694, electric mining engineer.		Rev. Bro. Amian, F. S. C., St. Michael's College, chemist, mineralogist, ter- ritorial geologist.
NEW	JERSEY		Edward F.Hobart, U. S. surveyor-gen
		Silver City Grant	JAMES S. FIELDER, mining engi-
	C. G. Buchanan, mining engineer.	**	neer.
Bridgeton Cumberland "Lochwold."	Oberlin Smith, mining engineer.		wm. H. NEWCOMB, mining engineer.
Cranford	eralogist, assayer and surveyor,	**	deputy mineral surveyor; mineral properties for sale.
Dover . Morris	Frederick A. Canfield, Blackwell st., mining engineer.	Socorro, Socorro	Leonard M. Brown, mining engineer U. S. surveyor,
W	George E. Jenkins, C. E., civil and manng engineer.	White Oaks Lincoln	Morris B. Parker, M. E. and surveyor
Hoboken Hudson	F. M. F. Cazin, 230 Hudson st., con- sulting mining engineer and metal- lurgist.	NE	W YORK
	Thomas B. Stillman, Ph. D., T. C. S., Stevens Institute of Technology, assayer and analytical chemist.		
Jersey City Hudson		Albany . Albany	James T. Gardiner, 21 Elk st., mining engineer.
	Otto F. Pfordte, 308 Sherman av., mining engineer and metallurgist.		Martin L. Griffin, 18 S. Hawk st., analytical chemist and engineer.
Kenvij Morris	W.S. AYRES, civil and mining engineer; formerly supt. of mines for the Musconetcong Iron Works; ex-		Prof. James Hall, state geologist.
	aminations, reports and estimates of cost made.	O	John C. Smock, department of miner alogy and economic geology.
Newark	Geo. C. Stone, N. J. Zine & Iron Co., mining engineer.	Brooklyn. Kings	E. S. CODFREY, C. E., 974 Bergen st. mine surveys, maps, mining ma chinery, drawings, estimates, super
**	W. J. B. WALKER, care Babcock S. & R. Co., mining engineer.		intendence, experimental mining machinery.
NewBrunswick, Middlesex	Albert H. Chester, 39 College av., mining engineer; professor Rutgers College.		Peter E. Nostrand, 25 Palmetto st. mining and civil engineer.
	Robert A. Cook, 7 Bleeker pl., mining engineer.	Buffalo Erie	Bassett Bros., 298 Main st., mining and civil engineers.
	Frank L. Nason, assistant geologist, geological survey.	**	HERBERT M. HILL, 830 Main st. assayer and chemist; reports and advice in all departments of sani
1).	frying S. Upson, geologist, geological survey.		tary, industrial and legal chemistry expert on minerals.
Orange . Essex	THOS. A. EDISON, electrical and mechanical engineer.	**	John A. Miller, Ph. D., 203 Ellicoti st., consulting chemist.
	S. C. BUEN, electrical engineer.		Maurice B. Patch, M. E., 1 Austin st. superintendent smelting works.
Stanhope Sussex	1, P. Pardee, mining engineer.		Charles Platt, A. C., 31-34 Lewis Blk.
Trenton Mercer	C. W. Coman, assistant geologist, geological survey.		chemical engineer and consulting chemist.
NEW	MEXICO		F. P. VANDENBERCH, 31-34 Lewis Blk., chemical engineer, assayer and analytical chemist.
Albuquerque Bernālillo	WILLIAM JENKS, 408 W. Lead av., mining engineer, metallirgist; in- vites correspondence.	FX	THE VANDENBERCH LABORA TORY OF CHEMICAL INDUS- TRY, F. P. Vandenburgh, B. S. M. D.; R. A. Witthaus, A. M., M. D.; Charlise Platt, A. C.; chemical engineers, analytical and consulting chemists; mining properties ther olighty prospected, analyses and advisory reports remiered, Labora- tory, 31–34 Lewis Block, Bullalo X.Y.
· · ·	W. O. Secor, civil and mining engineer,		engineers, analytical and consulting chemists; mining properties thor
Cerrillos	John Crosby, mining engineer.		advisory reports rendered, Labora tory 31–34 Lewis Block, Buffalo
Chloride Sierra	L. J. Otto, U. S. deputy mineral/surveyor,	Corning .Steuben	Stephen T. Hoyt jr., clvil and mining engineer,
**	JAMES P. BLAINE, mining engineer.	Mineville Essex	C. H. Cady, mining engineer.
Gold Hill Grant	JAMES B. CRECORY, mining engineer.	New York, New York	Henry A. Bang, 1214 Broadway, me chanical engineer.
Lake Valley Sierra	Ellis Clark, mining engineer and metallurgist.		Alfred L. Beebe, 42 Bleecker st. chemist New York Health Depart
Lordsburg. Grant	J. W. Hamilton, mining engineer.		ment.

TOWN AND COUNTY	Name	TOWN AND COUNTY	NAME
New YorkNew York (Continued.)	W. DE L. BENEDICT, 18 Broadway, consulting mining engineer and metallurgist; specialties, tin and phosphate mines.	New YorkNew York	Axel Sahlin, t Broadway, mining engineer. E. J. Schmitz, 164 E. Eightieth st.,
**	Joseph R. Bien, 140 and 142 Sixth av., civil and topographic engineer.		mining engineer and metallingist.
	Robert E. Booraem, 74 Broadway, mining engineer.		D. McN. STAUFFER, Bldg., mining englineer.  Joseph Struthers, Columbia College,
	Walter S. Church, 140 Nassau st., con- sulting mining engineer.		chemistry, metallurgy and miner- alogy.
	Frederick G. Corning, 15 Broad st., mining engineer and metallurgist.	**	Wm. Van Slooten, C. E., 74 Wall st., mining engineer and metallurgist.
44	J. James R. Croes, 13 William st., consulting engineer.	**	LEO VON ROSENBERC, 35 Broadway, mining engineer.
	Courtenay De Kalb, 18 Broadway, Room 809, mining engineer and metallurgist.	4.	Walter H. Weed, 50 Pine st., mining engineer.
		" + "	Woodbridge & Turner Engineering Co., Times Bldg., 4t Park row, electrical and mechanical engineers.
	Algernon Del Mar, 703 E. One Hun- dred and Forty-first st., mining en- gineer, assayer and surveyor.		
4+	WM. P. DEWEY, 180 Fifth av., mining engineer.		Arthur F. Wondt, 127 E. Ninety-first st., mining engineer and metal- lurgist.
**	P. P. Dicklison, 45 Broadway, civil and mining engineer.		Young & Park, 2 Wall st., mechanical and mining engineers.
**	THOS. ECLESTON, Ph. D., cor. Forty-mith and Fourth av., pro-	Niagara Falls. Niagara	Wm. S. Humbert, E. M., P. O. Box 296, civil and mining engineer.
	fessor of mineralogy and metal- lurgy, School of Mines, Columbia College, consulting mining engineer and metallurgist.	Peiham Manor Westchester	Wm. A. Smith, mining engineer; fecturer on mining, Columbia Col- lege.
4.6	Geo. L. English & Co., 733 Broadway, mineralogists.	Port HenryEssex	N. M. Langdon, N. Main st., mining and mechanical engineer,
40 11	T. Graham Gribble, 76 Broad st., civil, mechanical and hydraulic engineer.	Poughkeepsie Duchess	A. E. TOWER & BRO., mining engineers.
	W. A. Hooker, E. M., 145 Broadway, consulting mining engineer.	Rochester Monroe	Geo. W. Rafter, 434 Clifton 81., eivilengineer.
	F. R. Hutton, Ph. D., 42 West Thirty- first st., mechanical engineer and	Rome ,Oneida	The Stanwix Engineering Co $_{\alpha}$ mining and hydraulic engineers.
	expert.	Spragueville St.Lawrence	CRECORY P. HARTE, M. E., mgr. Rossie Iron Works.
**	ing engmeer.		W. B. Cogswell, mining engineer.
••	Wilham Kent, 125 Times Bldg., me- chanteal and metallurgical engineer. Geo. F. Kunz, M. E., 11-15 Union Square, gen expert and gem min-		ENCINEERING EMPLOYMENT BUREAU, & Granger Block, supply- ing employers with engineers, sup- erintendents, chemists and drafts-
	ing.		W. L. Neill, care of Solvay Process
41	Ledony & Co., 9 Cliff st., assayers, metallurgists and mining engineers.  E. A. LEWALD, 69 Wall st., civil	Turrytoun Wastahastar	Co., mining engineer. Francis N.Holbrook, mining engineer.
46	E. A. LEWALD, 69 Wall st., civil and mining engineer, examina- tions, reports and management of mines.		Charles McCreery, mining engineer.
46	Orleans Longaere, Twenty-sixth st. and Eleventh av., mining and con-	.,	John M. Sherrerd, 116 First st., metal- lurgist and analytical chemist.
	ceo. w. maynard, 75 Cedar st.,	* **	Enrique A. Tonceda, Troy Steel & Fron Co., civil engineer and chemist.
	mining and inetathirgical engineer.  Spencer Miller, 96 Liberty St., min-	Warsaw Wyoming	Cassius C. Peck, mining engineer.
	ing engineer.  Dr. Gideon E. Moore, 221 Pearl st., analytical chemist and assayer.	NORTH	CAROLINA
	Eben E. Olcott, 18 Broadway, mining engineer and metallnrgist.	Brindletown Burke	Frank W. Boyd, mining engineer.
41	H. Hobart Porter jr., 120 Broadway, mining and mechanical engineer.	Chapel Hill. Orange	HENRY B. C. NITZE, assistant state geologist, North Carolina.
	R. W. RAYMOND, Ph. D., M. E., 13 Buring slip, secretary American In- stitute of Mining Engineers.		Geo. B. Hanna, geologist and miner- alogist, geological survey.
	Jesse W. Reno, Mills Bldg., mining engineer and metallurgist.		Prof. J. A. Holmes, acting state geologist.
	RICKETTS & BANKS, M. E., 104 John St., mill (ests, sampling, assays and analyses. (See adv., page 11.)	Charlotte Mecklenburg	C. Ad. Mezger, M. E., P. O. Box 147, mining and metallurgical engineer.
**	and analyses. (see adv., page II.)  RICHARD P. ROTHWELL, (. E., M. E., 27 Park pl., editor of The Engineering and Mining Journal.		United States Assay Office, assayers and mineralogists.
	Engineering and Mining Journal.	** .	John Wilkes, mining engineer.

TOWN AND COUNTY	Name	TOWN AND COUNTY	Name
CharlotteMeeklenburg (Continued.)	J. Frank Wilkes, mining engineer,	ClevelandCuyahoga (Continucd.)	CHARLES H. POTTER & CO., 104 Superior st., mining engineers.
	Paul Wilkes, 508 N. Trade st., mining engineer.		RATTLE, NYE & HOLLIS, 807 Western Reserve Bldg., analytical chemists and mining engineers.
Gold Hill Rowan	RICHARD EAMES JR., mining engineer and assayer. Experience in California, Colorado, India, Hondu-		(Also Chicago, III.)
Salisbury Rowan	ras.  FRANK R. WILLIAMS, mining engineer; examines and reports.		<ul><li>Wm. J. Rattle, 155 St. Clair st., min- ing engineer and analytical chemist.</li><li>Robert M. Haseltine, chief state in-</li></ul>
			spector of mines.
	J. T. WYATT, 140 Main st., mining engineer; gold-grinders, portable mills, rubble-stone, curbing, granite, also Belgian blocks.		Edward Orton, 100 Twentieth st., mining engineer.
South Toe Yancey	Jasper Autrey, surveyor; mines and		FRANK A. RAY, mining engineer.
	mining. H. A. Whiting, mining engineer.		Andrew Roy & Son, mining geologists and engineers.
		Massillon Stark	E. D. Wileman, M. E., Warwick Block, mine engineering and surveying.
	H DAKOTA	New Philadelphia Tuscarawas	Wm. B. Hanlon, civil and mining engineer.
Grand Forks	E. J. Babcock, department chemistry and mineralogy University of North Dakota.	Seio	William Hibbs, Main st., mining, civil and topographical engineer.
	ОНЮ	Shawnee Allen	engineer.
Akron Summit	STEPHEN H. PITKIN, 104 Park st., gen. mgr. Webster, Camp & Lane	Steubenville Jefferson	Joe M. Wilson, 224 N. Fourth av., chemist and metallurgist,
	Co. Frank B. Armstrong, surveyor.	StewartvilleBelmont	Isaiah Nichol, surveyor, civil and mining engineer.
	CHARLES C. SHARP, civil and numing engineer; chief engineer Co-	YoungstownMahoning	E. D. Haseltine, E. Wilson av., civil and mining engineer.
	hmbns & Hocking Coal & Iron Co.	0.	REGON
Cambridge Guernsey	Wm. J. Hester, 132 N. Sixth st., min- ing engineer.		
	C. W. H. Kreikenbaum, mining engineer and superintendent.		J. J. Taylor, mining engineer.  Arthur Philbrick, C. E., Slater Block,
Canal Dover . Tusearawas	J. L. Morris, mining engineer.	Millers Linn	U. S. Deputy mineral surveyor. E. T. T. Fisher, M. E., U. S. deputy
Carbon Hill Hocking	Eph. Shaw, civil, mining and me- chameal engineer.		mineral surveyor.  John W. Kimbrell, M. E., 5 Savings Bank Bldg., U. S. deputy mineral
Cincinnati Hamilton	G. Bonsearen, 99 W. Fourth st., con- sulfing engineer.		Bank Bug., U. S. deputy mineral surveyor. W. H. Byars, U. S. surveyor-general.
	THOMAS J. CREACHEAD, 296 Plum st., mining and electrical en- gineer.	*	Wm. II. Hampton, metallurgical chemist and mining engineer.
•• • • • • • • • • • • • • • • • • • •	Jas. R. Maxwell, M. E., 75 E. Front st., consulting engineer.	Prairie CityGrant	J. W. Mack, M. E., U. S. deputy min- eral surveyor.
ClevelandCuyahoga		Salem Marion	E. J. McCaustland, 320 Liberty st., hydraulic and mining engineer.
	engineers.	Sparta Union	
	J. H. CREMER, 24 Superior st. (viaduct), mining engineer, chemist and metallurgist.	PEND	SSYLVANIA
	N. B. Dare, 57 and 59 Wade Blk., mining engineer.	AlleghenyAllegheny	J. M. Camp, 131 Rebecca st., analytical chemist and metallurgist.
	JOHN J. DATE, Perry-Payne Bldg., mming engineer.		Edward T. Clymer, 940 N. Front st., mining engineer.
	Robert N. Dickman, 18 Johnson st., chemist and mining engineer.		Joseph Hunt, cor. Third and Walnut sts., mining engineer.
ba di	L. A. DRYFOOS, Ph. C., Ph. D., 155 St. Clair st., Room 55, consulting, technical and analytical chemist.	Altoona Blair	W. M. FRASER, 1603 Eleventh av., civil and mining engineer; coal and ore properties examined and
46 49	W. J. HILANDS, 108 Superior st., mining engineer.		reported on in any part of the state.
45 65	KNIFFLER MANUFACTURING CO., 50 Enelid av., analytical chem-	Ashland Schuylkil	William Hogg, First National Bank Bldg., civil and mining engineer.  Wm. McMurtrie, inspector of mines, sixth anthracite district,
44 14	John W. Langley, Ph. D., care of Case School of Applied Science, electri- cal and metallurgical engineer.		Henry L. Manley, 150 Centre st., min-
			ing engineer, Samuel M. Riley, civil and mining
	HENRY M. MORRISON, M. E., Sims Bldg., rope haulage, wire rope.		engineer.

TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
Audenried Carbon	Theodore Stevens, care of H. E. Stout, mining engineer and metal-lurgist,	Philadelphia,Philadelphia (Continued,)	E. V. d'Invilliers, 711 Walnut st., geologist and mining engineer.
	R. Paul Stout, mechanical engineer for L. & W. B. Coal Co.	**	Dr. Persifor Frazer, 1042 Drexel Bldg., geologist and chemist,
Bethlehem Northampton (See also South Bethle-	Edward H. Williams jr., F. G. S. A., 117 Church St., professor of mining and geology, Lehigh University.	**	Wm. C. Gatzmer, 132 S. Delawarejav., general engineering.
hem.)		*	Edward B. Harden, 424 N. Thirty-third st., geologist and mining engineer.
	James N. Patterson, inspector of mines, fourth bituminous district. S. M. Foush, cor. Main and Prospect, mining and civil engineer.		James T. B. Ives, 1455 N. Twenty- uinth st., mining engineer and geol-
	John D. Hagerty, mining engineer,		ogist.  Ambrose E. il.ehman, 711 Walnut st., mining, civil engineer and geologist.
Easton Northampton	Edward Hart, Lafayette College, an- alytical chemistry.		
10	Clemens Jones, M. E., 433 Northampton st., chemist.		George M. Lehman, 711 Walmit st., civil and topographical engineer. Benj. S. Lyman, 708 Locust st., mining
ErieErie	W. S. CRESLEY, State St., Scott's Block, mining engineer; specialty, coal mines, advises on improved methods of mining: "Longwalt" specialist. Twenty-three years prac- neal experience in 1 . 8, and Great		engineer, geologist and topographer.  PENROSE & BARRINGER, Bullitt Bildg., 1st-1st S. Fourth St., geolo- gists and mining experts. R. A. F. Penrose and Daniel M. Barringer.
Hastings .Cambria	neat experience in U.S. and Great Britain. Holds state mine mana- ger's certificate of competency. C. F. FRASER, civil and mining		R. A. F. PENROSE JR., Ph. D. 1331 Spruce st., mining engineer and geologist.
	C. F. FRASER, civil and mining engineer; resident engineer Bin- baker Coul Co; special attention given to reports on coal properties.		Frederick Prime, 1008 Spruce st., geofogist and metallurgist.
HazeltonLuzerne	L. O. Emmerich, civil and mining engineer.		Frank C. Roberts, 328 Chestnut st., mechanical engineer.
	John M. Lewis, inspector of mines, fourth authracite district.		C. Henry Roney, 110 S. Fourth st., consulting engineer and architect.
	THOS. S. MCNAIR, 154 N. Church st., civil and mining engineer.		A. D. W. Smith, Post Office Bidg. Boom is, assistant geologist, Penn- sylvania Geological Survey.
	A. S. VAN WINKLE, mining engineer, supt. Berwind-White Coal Co.		WALTER M. STEIN, 325 Walmitst., metallurgical engineer.
Horatio "Jefferson Houtzdale "Clearfield	Thomas Fisher, M. E.  Austin, King, inspector of mines,		John A. Wilson, Drexel Bldg., civil
Huntingdon Huntingdon	eighth bituminous district.		engineer. H. H. Vard, 415 Drexel Bldg., mining
	civil and mining engineer.  James Blick, inspector of mines, seventh bituminous district.	Philipsburg Center	engineer. P. E. Womelsdorff, Gray Bldg., mining engineer.
	enth bitummous district.  Wm. Jenkins, inspector of mines,	PittsburghAllegheny	
	second bituminous district.		R. Nelson Clark, Thirty-second and
	J. T. Evans, inspector of mines, sixth bituminous district.  Marshall G. Moore, 244 Morris st.,		Smallman sts., mining engineer. Gram Curtis, 612 and 613 Lewis Block,
	mining engineer.		consulting mechanical engineer,
	George E. Thackeray, Cambria Club, civil, mechanical and metallurgical engineer.		R. Stuart D. Harfrick, 434 Water st., civil and mining engineer.
· · · · · · · · · · · · · · · · · · ·	Frank Williams, 221 Main st., mining engineer and metallurgist.		HUNT & CLAPP, 116 Water st., inspecting and metallurgical en- gencers and chemists, agents. Spac- ter's magnesite refractories. Cable address, "Testing," Pittsburg.
Lebanon Lebanon	S. G. Valentine, Ph. D., mining, engl- neer.		
	Asa A. Weimer, mechanical engineer.	**	Chas, B. Judd, Room 44 Westinghouse Bldg., mining engineer.
McKeesport . Allegheny	mining engineer.	**	JULIAN KENNEDY, Vandergrift Bldg., nuning engineer.
	Thomas K. Adams, inspector of mines, third bituminous district.	**	F. A. McDonald, Room 811 Penn Bldg., civil and mining engineer.
Monongahela City	Edwin Mickley, Main st., mining engineer, Henry Loutfit, inspector of mines, tirst bituminous district.		McDonald & Chalmers, Penn Bldg., Room 811, mining and civil en- gineers.
Washington	tirst bituminous district.  P. E. Alden, civil and mining engineer.		Geo. R. Mackenzie, 77 Fourth av., min- ing engineer.
	Geo, M. H. Good, mining engineer.		George Francis Myers, Penn Bidg, electrical mining engineer.
	Amos P. Brown, E. M., care of University of Pennsylvania, instructor in mineralogy and metallurgy.		electrical mining engineer.  S. D. OLIPHANT, 159 First av., mining engineer.
			minus cugineer.

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TOWN AND COUNTY	SAME	TOWN AND COUNTY	NAME
PittsburghAllegheny (Continued.)	PITTSBURGH TESTING LABO- RATORY, 116 Water st., inspecting and metallurgical engineers and chemists.	Uniontown Fayette Wayne Delaware	Wm. Duncan, inspector of mines, lifth bituminous district.
6	ROBINSON & ORR, 419 Wood st., mining engineers.		H. BIRKINBINE, hydraulic and mechanical engineer.  Anton Hardt, mining engineer.
**	M. V. SMITH, Tomes Bldg., Room 706, metallurgical engineer and con-		James H. Bowden. 37 Park av., min- ing engineer, anthracite expert.
**	tractor, S. Stutz, 706–710 Penn av., mining and mechanical engineer,		W. J. RICHARDS, 98 Public Square, ndning engineer Lehigh & Wilkes Barre Coal Co.
**	Selwyn M. Taylor, Room 420 Bissell Block, mining engineer.		G. M. Williams, inspector of mines, third anthracite district.
Pittston Luzerne	11. McDonald, inspector of mines, second anthracite district.		third anthracite district.
PottstownMontgomery	J. S. Robeson, metallurgist.	TALLOT	13 535 13515
Pottsville Schuylkill	Samuel Gay, Inspector of mines, seventh anthracite district.		DE ISLAND
** ** **	Bard Wells, cor. Second st. and Schuylkill av., mining engineer.	Providence Providence	L. B. Darling, 34 Sabin st., mining engineer.
Pmxsutawney , Jefferson	H. S. Smith, civil and mining engineer.		
	Wm. 11. Dechant, 536 Penn st., mining and civil engineer.	SOUTH	CAROLINA
	Fremont M. Brown, Grant st., civil and mining engineer.	Beaufort Beaufort	C. W. Jewell, P. O. Box 197, machinist, engineer, draftsman.
ScrantonLackawanna	James Archbald jr., mining engineer.		
**	Geo, F. Barnard, 923 Mufberry st., mining and mechanical engineer.	SOUTI	н ракота
**	EDMUND A. BARTL, 404 Lackawanna av., civil and mining engineer and architect.		
. "	Patrick Blewitt, inspector of mines, first anthracite district.		RICHARD BLACKSTONE, chief engineer Homestake Mining Co.
٠,	ALEXANDER DICK, mining engineer; assistant editor Colliery En-		S. D. Porter, assayer and mining en- gineer.
**	gineer.  RUFUS J. FOSTER, mining engineer; editor Colliery Engineer.	Headwood, Lawrence	RICHARD C. ANDERSON, mining engineer, United States deputy mineral surveyor for South Dakota and Wyoming.
	WILLIAM CRIFFITH, Room 16 Coal Exchange, civil and mining engineer and geologist.		P. Danckwardt, metallurgical chemist.
**	Edward S. Moffat, 306 Quiney av., mining engineer.		Geo, S. Hopkins, deputy U. S. mineral surveyor.
45 33	Jeremiah J. Phillips, 205 S. Main av., civil engineer and surveyor.		Geo, H. Sharpe, civil and mining engineer.
**	Francis A. Pocock, Wyoming av., mining and electrical engineer.		WAITE & ANKENY, mining engineers.
••	C. H. SCHARAR, 2073 North Main av., civil and mining engineer; mining engineer Delaware & Hud-		Thomas H. White, mining engineer, surveyor, inspector, contractor.
	son Cánal Čo. Alex, H. Sherrerd, 423 Jefferson av., mining engineer and chemist.	*	A. D. Wilson, Ph. D., elvil and mining engineer.
	H. P. SIMPSON, Republican Bldg., mining engineer.	Hill City Pennington	Charles M. Caton, C. E., U. S. deputy mineral surveyor.
Sharpsville Mercer	Walter A. Barrows, analytical chemist.	Lead Lawrence	Titus E. Corkhill, state inspector of mines.
Shenandoah . Schuylkill		** **	Burdett Moody, M. E., engineer Home- stake Mining Company.
	Robert G. Davies, mining engineer.	Rapid City Pennington	SAMUEL SCOTT, mining engineer; mining livestments; mines exam- ined; advice given.
South Bethlehem Northampton (See also Bethlehem.)	W. H. Jaques, M. E., Fountain Hill, ordnance and consulting engineer.		med; advice given.  MYRON WILLSIE, civil and mining engineer.
" "	W. S. Maharg, 16 W. Fourth st., chemist and assayer.	Sioux FallsMinnehaha	D. C. Rice, 219 S. Duluth av., civil en-
** **	M. D. Sohon, Lehigh University, analytical and consulting chemist.	Sisseton Roberts	gineer.  Monroe Warner, C. E., U. S. deputy
· . · · · · · · · · · · · · · · · · · ·	H. H. Stock, instructor in mining and geology, Lehigh University.	Vermillion	mineral surveyor.  Carl Gunderson, C. E., U. S. deputy
Steelton Dauphin			mineral surveyor.  Elbert D. Hawkins, C. E., U. S. deputy mineral surveyor.
SwedelandMontgomery	Jacob Lychenheim, M. E., analytical chemist.	WatertownCodington	Geo. W. Carpenter, cor. Spruce and Huron sts., surveyor and engineer.

TEX	NNESSEE	TOWN AND COUNTY	Name
TOWN AND COUNTY	Name	Park City Summit	Wm. A. Wilson, mining engineer and metallurgist.
Chattanooga Hamilton	CUILD & WHITE, 20, 21 and 22 Keystone Block, mining engineers and	Provo	H. H. Hendershot, Excelsior Block, mining engineer and assayer.
	analytical chemists.  CEORCE W. WARE, 103 W. Ninth	St. George Washington	Isaac C. MacFarland, civil engineer and surveyor.
	CEORCE W. WARE, 163 W. Ninth st., mining engineer; mineral prop- crites, coal, fron, manganese, etc. Nothing but first-class properties and securities handled or offered.	Salt Lake City Salt Lake	Bannister & Burch, 49 S. Main st., civil and mining engineers,
Clarksville . Montgomery	and securities handled or offered.  H. G. Woodward, mining engineer.	* *	BEWICK, MOREING & HOOPER, Room as Central Block, mining engineers.
	Louis E. Bryant, mining engineer.	**	J. W. Currie, 159 Main st., assayer.
Jellico . Campbell	DAVID C. BARKER, mining and consulting engineer. Experience in England, south Wales, South Africa and United States. Diplomas of honor.*	**	Ellsworth Dagget , U. S. surveyor- general, mining engineer and metal- lurgist.
	J. W. Sloeum, 152 Gay St., analytical	**	Wythe Denby, M. E., Rooms 406 and 407 Progress Bldg., U. S. deputy unineral surveyor.
Nashville . Davidson	chemist and assayer.  Wm. L. Limiley, M. E. eare of Vander-	**	M. S. HANAUR, 131 S. Main st., assayer and chemist.
NASHVIIC . DAVIGSOII	Wm. L. Dudley, M. E., eare of Vander- bat University, professor of chem- istry.		assayer and chemist.  A. P. Hanson, Room 517 P. O. Block, civil and mining engineer.
**	Geo. W. Ford, inspector of mines and commissioner of labor.	**	A. Jessen, 558 E. Fourth Temple st.,
**	OLIN H. LANDRETH, M. E., Van- derbitt University, consulting en- gineer; water works, water power.		civil and mining engineer.
	g.neer; water works, water power, reclamation, irrigation, drainage.		Jones & Jacobs, 47 Main \$1., mechan- leaf and contracting engineers.
, 11	Wm. T. Magruder, Vanderbilt Uni- versity, professor mechanical en- gineering, technical expert.		G. LAVACNINO, 76 W. Second South st., Rooms 19 and 29, nunling and consulting engineer. Cable address, "Lavagnino," Salt Lake.
South Pittsburg, Marion	F. P. Chite, civil and mining en- gineer.		Samon F. Mackle, 115 Main 8t., civil engineer and mineral surveyor.
Whitwell	James J. Ormsbee, mining engineer.		J. McVICKER, P. O. Box 1014,
,	PEXAS		R. H. OFFICER & CO., 169 S. W. Temple st., assayers, chemists and
	E. T. Dumble, state geologist.		ore buyers.  RICHARD H. TERHUNE, 417 W.
	BERNARD F. HECKELMAN, P. O. Box 35, U. S. assayer and chemist.		Temple st. S., mming engineer and metallurgst; gen. supt. Hananer Smelting Works.
El Paso El Paso	Salem T. Chapin, assayer and ore purchasing agent.		
	F. W. Edelsten, M. E., cor, Chihuahna and San Francisco 8ts.	VI	RGINIA
	A. H. Parker, mining and civil en- gineer.	Bolford City . Bedford	H. B. Colburn, mining engineer and metallurgist.
Llan )Llano	JAMES A. WOOD, M. E., P. O. Box 105, mmag property examined, re- ported upon; agent for Wakefield Iron & Coal Land Improvement Co., Llano, Texas.	Big Stone Gap	James M. Hodge, geologist and en- gineer.
		Covariation Alleghany	Graham B. Bell, mining engineer.
ShatterPresidle	wm. s. NOYES, mining engineer, supt. Presidio Mining Co, and Cibolo Creek Mill & Mining Co.	Fineastle . Botetourt	Frank G. Doggett, civil engineer and architect.
Weatherford . Parker	W. Hamon, P. O. Box A, mining engineer.	Harr sonburg Rockingham	Robert B. Aflen, mining and civil engineer.
	UTAH	Longdate Alleghany	Guy R. Johnson, cavil, mining and furnace engineer.
	( 1.11	Low Moor Alleghany	E. S. Campbell jr., mining engineer and chemist.
	Andrew Adamson, U. 8, deputy m.a. eral surveyor.	Mineral City . Louisa	W. L. B.shop, Mineral av. and First st., civil and nuning engineer.
Brighum City Box Elder P. O. Box Elder.	N. P. Anderson, U. S. deputy/mineral/ surveyor.	Newbern . Pulaski	
	Robt. Forrester, geologist, mine surveyor and inspector,	Pulaski Cay Pulaski	THOMAS J. JONES, M. E., care Bertha Zine & Material Co., metal- lurgist and analytical chemist.
Duchesne. Unitab Via Fort Duchesne,	BERT SEABOLDT, M. E., gen. supt. mines Galson Asphalfum Co.		
Eureka Jual	Bridges & Nelson, Bank Bldg., min- ing engineers.		OR. HENRY FROEHLING, 17-8. Twelfth st., analytical and consult ing chemist, assayer and mining en, neer. Mines and mineral prop- erty in the south examined.
Ogden Webei	<ul> <li>Washington Jenkins, 2678 Washing ton av., U. S. deputy mineral sur- ve [97].</li> </ul>	Roanoke Roanoke	August A. Miller, M. E., P. O. Box 277, analytical chemist and assayer

910 11	TE MINING DIRECTO	TI-ENGINEE	ars, etc.
TOWN AND COUNTY	NAME	TOWN AND COUNTY	NAME
RoanokeRoanoke (Continued.)	edmund c. Pechin. M. E., will report on iron properties.  Oscar Saabye, Campbell st., opp. post-office, consulting civil engineer.	Rush Run	Liberty sts., mining and civil engi-
Stanleyton Page	C. B. Foote, mining engineer.	WheelingOhio	Reer.
WAS	HINGTON	Wis	SCONSIN
Anacortes Skagit	Amos Bowman, cor. Fifth av., geolo-		
Colfax	gist, transportation, coal and power.  E. H. Hendseh, mining and mechanical engineer.	Beloit	ERASTUS C. SMITH, Ph. D., Be- loit College, chemical laboratory analytical and consulting chemist.
Colville	J. C. Cobaugh, assayer and mineral- ogist.		<ul> <li>C. S. Simpson, civil and mining engineer.</li> </ul>
Durham King		Hurley Ashland	CEO. H. ABEEL, M. E., iron mines and blast furnaces.
	ROBERT YOUNG, civil and mining engineer; specialist on iron, coal, fireclay, firebricks for intense heats, coal washing, coke.coke making and fire-brick plant.		John Green, mining engineer. D. C. Jackson, electrical engineer.
Fairhaven Whatcom	R. E. Helms, mining engineer.	Milwaukee Milwaukee	Davenport Fisher, 334 Broadway, ana-
New Whateom . Whateom	M. Muir Picken, P. O. Box 781, U. S. deputy mineral surveyor.	• e •	lytical chemist.  A. S. Mitchell, 436 Miiwaukee st. chemist and assayer.
Olympia Thurston Ruby Okanogan	Amos F. Shaw, U.S. surveyor-general.  LUTHER WACONER, M. E., mana-		Theo, W. Robinson, care of Illinois
	LUTHER WACONER, M. E., manager Washington Reduction Co. C. E. Bogardus, 60 Columbia st., assayer and chemist.	" "	Steel Co., mining engineer.  Harry E. Smith, 133 Twenty-sixth st., chief chemist C., M. & St. P. Ry.
** **	ANDREW F. BURLEICH, mining engineer.	Trempealeau Trempealeau	G. H. Squires, geologist.
» »	Alexander M. Reynolds, M. E., 63 Squire-Latimer Blk., min. surveyor.		COMING
Sedro Skagit	A. G. Mosier, C. E., U. S. deputy min- eral surveyor.	Cheyenne Laramie	Wm. A. Richards, U. S. surveyor-gen
Snohomish Snohomish	Elmer Lenfest, C. E., U. S. deputy mineral surveyor.		J. E. Hill, U. S. deputy min. surveyor. A. L. Coleman, U. S. deputy minera
Spokane Spokane	B. C. Riblet, Rooms 23 and 24 Eagle Blk , U. S. deputy mineral surveyor.	Rock Springs Sweetwater	surveyor.  M. S. Knight, civil and mining engi
44	LEONARD SIVYER, mining engineer, mme owner, operator; carefully reports on mines anywhere.	• •	FRANK A. MANLEY, mining engineer
	Charles Trumbull, mining engineer.	Welcome Crook	R. G. Anderson, civil and mining en gineer.
Tacoma. Pierce	WILLIAM BREDEMEYER, Ph. D., 1011; A. St., Lawrence Bik., Rooms 3, 4 and 5, mining engineer, assayer, U. S. mineral surveyor, Thirty-four years' experience in Europe, Asia and America.	BRITISI	I ČOLUMBIA
·	DR. WILLIS E. EVERETT, 1318 E st. South, mining geologist, assayer and mining lawyer.	Golden, Yale and Kootenay  Kootenay Vale	FOWLER & FISHBURN, mining engineers and metallurgists. Arthur W. Jenks, mining engineer.
	and mining lawyer.	Nanaimo, Vancouver	Archibald Dick, M. E., inspector coal mines British Columbia.
WEST	VIRGINIA	** ***	Joseph Hardy, Rosewell Cottage mining engineer and expert.
Charleston. Kanawha	ALBERT M. CAMPBELL, Charleston National Bank Bidg. civil and mining engineer; the opening of	*	E. Priest, Stewart av., C. E., provin cial land and mine surveyor.
ClarksburgHarrison	G. B. Chorpening, civil and mining	Vancouver New Westminster	John Robson, provincial secretary,
Dego Kanawha	engineer.  OSCAR A. VEAZEY, civil and min- ing engineer.	Victoria Victoria	Herbert Carmichael, government ana lyst and assayer.
Dunlow Wayne	THOMAS NICHOL, mine supt. and	NEW I	BRUNSWICK
Elk Garden Mineral	mining engineer.  Henry Cunningham, mine inspector.	Fredericton York	L. J. Tweedie, surveyor general.
Elkhorn McDowell	engineers.	st. John st. John	Alfred Markham, Sun Bldg., mining engineer and mineral expert.
Fairmont	Eugene B. Wilson, mining engineer. J. Perry Thompson, Main st., civil	77/017	
	and mining engineer.	XOV	A SCOTIA
	J. F. Burley & Bro., La Fayette av., civil and mining engineers.		R. E. Chambers, mining engineer.
Powellton Fayette	C. Schalz, mining engineer and sur- veyor.	Halifax Halifax	John E. Hardman, 129 Hollis st., min- ing and consulting engineer.

..... P. Doyle, 19 Lall Bazar, civil, mining and consulting engineer.

TOWN AND COUNTY OR STATE	Name	TOWN AND STATE OR COUNTY	Name
OxfordCumberland SherbrookeGuysboro	R. G. E. Leckie, American House, mining and civil engineer.  J. M. Reid, Musquodoboit Harbor, mining engineer.  C. F. MONCKTON, mining engineer, dealer in mining properties, gold, ceal and from.  Joseph W. Revere, mining engineer.	City of Mexico	RICHARD E. CHISM, 3a Independencia No. 1. Avenuda Poniente 6, No. 47, Mining expert and patent agent, National School of Mines of Mexico, Publishes Elimiero Mexicano, the only mining journal of Mexico, established 1873, Organ of the richest class of Mexicans and Spaniards, Advertising very effective, Rates low. Subscription 85.00 a year, Elimiero Mexicano Patent, Trade Mark and Copyright Agency, Lowest rates, quickest time.
()]	NTARIO	Durango Durango	WILLIAM VICCERS, mining and mechanical engineer, superintend- ent of the Durango Steel & Iron Co., Durango, Mexico.
Kingston Kingston	Geo, A. Spotswood, 46 Clarence st., C. E., mining engineer.	La Noria , Zacatecas	Frank H. Seamon, mining engineer and chemist.
	G. L. Woodworth, mining engineer.  ROBERT BELL, geologist, assistant director Geological survey, Canada.	Magdalena Sonora	Ygnacio Bonillas, M. E., government mining expert Magdalena District.
		MonteMorelos, Nuevo Leon	Dr. H. B. Butcher, mining engineer.
	Geo, M. Dawson, geologist, Elfrie D. Ingrall, mining engineer to	Monterey . Nuevo Leon	T. S. Austin, metallurgist.
	geological survey of Canada.	*	Arthur K. Brewer, assayer and eliemist.
и	Albert P. Low, Goological Survey, geologist and mining engineer. Alfred R. C. Selwyn, C. M. G., L.L. D., F. R. S., director geological survey	b)	ELWOOD J. WILSON, E. M., min- ing engineer and metallurgist, met- allurgist Compania Minera Fundi- dora y Alhadora, Monterey.
n "	of Canada.  J. Lainson Wills, M. E., 206 Albert St., mining expert, chemist and assayer.	Pachica Hidalgo	FRED. W. BOWDEN, 57 Hidalgo st., maning engineer, surveyor and as- sayer.
Port'Arthur . Algoma	A. Longheed, civil and mining [en-	Parral Chihuahua	Thomas F. Doyle, mining engineer.
	walpole roland, C. E., M. E.,	San Felipe — Coahuila	Edward G. Tuttle, mining engineer.
44	Artmur St., topographical surveyor,	\U.	STRALIA
Sudbury Aigoma	Russell & Co., Cameron st., mining engineers and land surveyors.  James R. Gordon, civil and mining	Dundas .Tasmania	B. P. EKBERC, mining engineer.
	engineer.  James B. Hammond, Cedar st.,		GLAND
	chemist and metallurgist.		
**	Louis V. Rorke, Elm st., surveyor, mining and civil engineer.	LondonMiddlesex	BAYLISS & ROBINSON, 54 Old Brood st., E. C., mining and consult- ing engineers. (See Marysville,
**	A. D. MACDONELL, mining engineer.		Mont.) R. J. & Wm. Frecheville, 33 Broad Street av., mining engineers.
SydenhamAddington	dames Foxton, William st., mining and mechanical engineer.		Street av., mining engineers.
Toronto	Wm. Hamilton Merritt, 15 Toronto st., mining engineer and metallurgist.	F	RANCE
	W. Thos. Newman, 75 Oxford st., min- ing engineer.	Paris	d. M. Bel, 410 Boulevard Malesherbes, civil and mining engineer.
			EMILE COLLINS, 10 Me Auber, mining engineer.
()	UEBEC		minute engineer.
-		G	UIANA
Black Lake. Megantic	A. M. EVANS, M. E., specialty, coal, manganese, asbestos and copper.	Paramaribo, Dutch Guiana	J. J. SCHOFIELD, M. E., gold min-
Montreal Montreal	J. T. Donald, 124 St. James st., min- ing engineer and assayer.		J. J. SCHOFIELD, M. E., gold min- mg expert, specialty, African and South American quartz and placer
	J. Obalski, government mining engineer.		mines. Open to examine, report, develop and place properties as paying mines, according to report furnished.
Sherbrooke Sherbrooke	1°. A. Halsey, mining engineer.	HŌ	NDURAS
M	EXICO	Department de Çopan	d. C. Kingsley, mining engineer Department de Copau,
Alamos Sonora	Frank W. Breach, mining engineer,		expartment to opatic
Catoree San Luis Potosi	FRANCISCO M. COCHLAN, min- ing engineer.		INDIA

Nuevo Leon H. C. Harrison, mining engineer, Calentta .. .. Santa Anita Mining Co.



#### BROKERS, BANKERS,

#### INVESTMENT COMPANIES AND MINING EXCHANGES

	IFORNIA		NAME
TOWN AND COUNTY	NAME	Denver . Arapahoe (Continued.)	FRED A. COX, 355 Club Bldg., broker; mines and mineral lands.
Los Angeles : Los Angeles	F. C. Garbutt, 244 Ohio st., mining broker.		Denver Mining Exchange, Mining Exchange Bldg.
San Francisco San Francisco	THOMAS O. HEYDENFELDT, 137 Montgomery st., Room 5, mining seey, and broker.		O. 1. EZEKIEL, Room 420 Mining Exchange, mining investment broker, member of the Colorado Stock Exchange; dividend stocks a
	NAT. T. MESSER, 2 and 26 Nevada Block, broker: prest. Hale & Nor- cross and Andes Silver Mining Cos.		specialty, mining syndicates formed, correspondence solicited, Reter- ence, Colorado National Bank.
*	Pacific Mining Exchange, 45 Mer- eliants' Exchange, 431 California st.		C. M. Farmini & Co., 520 Mining Ex- change, brokers.
	Horace D. Ranlett, 420 Montgomery st., broker.		
COI	ORADO		A. P. FENNERTY, 920 Seventeenth
Aspen Pitkin	ARKELL, MAC MILLAN & STEW- ART, P. O. Box 013, brokers in manes and mining stocks. Refer- ence, First National Bank, Aspen.		st., mining broker.   Dealer in Colo- rado gold mines; mines secured for syndicates; mining compa-
	eSee adv., page 14.)  STOCKMAN & BOURQUIN, P. O. BOX 548, mining and stock brokers and mining stocks. References, First National Bank and Bank of J. B. Wheeler & Co., Aspen: Wm. B. Root, Mining Eschange, Denver.		nies organized; dividend-paying mines and mining stocks. Your business and correspondence solic- ited.
	Root, Mining Exchange, Denver.  S. L. VAN AMVINCEN, Hotel Jerome, mining promoter and stock broker.		
	Frank Canfield, P. O. Box 703, broker. C. F. Turner, mining broker.	**	WM. CELDER & CO., 207-209 Boston Bidg., mining and general brokers, stocks and bonds hought and sold or handled on commission.
	KISSELL, OTIS & CONNOR, brokers, real estate, investments and stocks, See adv., page 44.7		ERNEST J. HART, 411 Hrnest & Craimer Block, broker.
	W. H. Leonard, Hagerman Block, Room 13, mining stock broker		W. F. KENDRICK, Room 5a5 Min- ing Exchange Bidg, mining lavest- ments, official broker for the Ex- tension Gold Mining & Miling co., of Broekenridge; the Mascotte Gold Mining Co., of Alma, and Pea- ver Crock Mining & Miling Co., of Cripple Crock and Crocke, Refer- ence, Union National Bank, Den-
	PROUDFIT, EDSALL & COFFIN,		of Breekenridge; the Mascotte Gold Mining Co., of Alma, and Bea- yer Creek Mining & Milling Co., of
	W. W. WILLIAMSON, 1012 S. Tejon st., mining stock and invest- ment broker.		Cripple Creek and Creede. Reference, Union National Bank, Denver, Colo. (See adv., page 551.
Denver Arapahoe	HENRY APPLE, 1637 Champa st., broker in mines, mining and other stocks.		F. J. Medina, 608 Champa 8t.  WM. B. ROOT. Mining Exchange
	BAKER & FELT, 1035 Seventeenth st., bankers and brokers.		WM. B. ROOT, Mining Exchange Bidg., stocks and mines; member Colorado Mming Stock Exchange.
	SAMUEL P. BEALL, Room 421 Min- ing Exchange Bidg., P. O. Box 1966, stock broker; member of the Colo- rado Mining Stock Exchange of		c. F. SCHMIDT, 506 Mining Ex- change Bildg, mining stock invest- ments; member Colorado Mining Stock Exchange. Business for non- residents a specialty.
	Denver.  Robert Billings & Co., 6 Windsor Hotel Block, ore brokers.		W. M. TAYLOR & CO., 16 and 17 Londoner Bidg., in mag stock brok ers, members of Colorado Mining Stock Eveluage. We make a spe-
	CHAS. BLEIBEL, 1645 Curtis st., Room 2, broker, mining stocks, bonds, etc.		Stock Exchange. We make a spe- ealty of buying and selling mines and miscellaneous securities. Ex- aminations, reports, etc.
••	CEO. WIRT BOWMAN & CO., Jacobson Bldg., mining promoters and reporters; proprietors of Colo-	Western Breds	H. L. Wadsworth & Co., 4651 Curlis 81., brokers.
	rado Concentrating Co., and man- agers of the Gold Mint Mining Co. Robt, H. Buck, 310 Mining Exchange, investments.	Pueblo J. Pueblo	CHAS, E. CHERRINGTON, 247 N. Umon av., mining stock broker; mines and mining stocks bought and sold. Special attention paid to orders from non-residents.

	1	DAHO	TOWN AND COUNTY	Name
T				
Town and (	OUNTY	Name		Samuel K. Davis, 26, 27 Bailey Bloch broker.
Wallace	Shoshone	Cour d'Alene Real Estate and Min- ing Exchange, brokers.	MissoulaMissoula	W. G. Gooding, 12 Main st., broker
	. "	NATHAN WITTNER, Bank st., broket; correspondence solicited, good investments secured.		broker.
	7.1	LINOIS		MEXICO
=			ChlorideSierra	JAMES P. BLAIN, mining, rea estate and general broker.
Chicago		SIDNEY BOQUE & CO., 59 Dearborn st., brokers; land in large bodies, mines and mining lands; Missouri and Arkansas made a specialty.	Socorro Socorro	Edwin F. Hotmes, broker. Cheves & Dougherty, mine broker. H. P. Dickinson, broker and assaye
44	"	Ferry & Wright, 175 Dearborn st., brokers.	NEV	W YORK
		HAMILTON, LOWE & CO. (incorporated), Chamber Commerce Bldg., precions metals and ores. (See adv., page 14.)	New York New York	The American Metal Co., Ltd., S Wall st., metal brokers.
	<b></b>	KLING & STRICKLER, 123 La Salle st., brokers, promoters for the sale of mining properties; companies	"	JAMES EDWARDS, 11 Wall st promoter of mming properties.
		organized and capital secured.	" "	Francis N. Gove, 16 Exchange p broker.
		EDWARD B. STILES, P. O. Box 1124, broker; mining stocks and western investments. Correspond-		E. R. Grant, 57 Broadway, broke
		ence solicited.		handy & Harmon, 24 Nassau sl brokers.
	MI	CHIGAN	** **	Wm. L. Patton & Co., 6 Wall st bankers and brokers.
Detroit	Wayne	LEE BURT, 1004 Hammond Bldg., purchase and soll lands, stocks, etc. Specialty, iron. (See adv., page 546.)		way, broker; negotiates sales onlines, etc.
**	. "	J. V. Campbell & Co., 27 Larned st. W., bankers and brokers.	· · ·	CEORCE R. WOOD, 53 Broadwa names and investment securitie (See adv., page 546.)
	MIN	NESOTA		ощо
Luluth	. St. Louis	JAMES A. BOCCS, 330 Chamber of Commerce Bidg., banker and broker. (See adv., page 14.)	Cleveland. Cuyahoga	JOHN J. DATE, Room 219 Perr Payne Bidg., stock and bond broke Lake Superior iron stock a sp castry.
*		Duluth Stock Exchange, 325, 327 W. Superior St.  FRANKLIN PAINE & CO., 44	· · ·	WM. J. HILANDS, 108 Superior st investment securities, mines an
**		FRANKLIN PAINE & CO., 44 Board of Trade, brokers, Corre- spondence solierted. Grant Wyatt 302 Palladio Bldg.,		railroads.  CHAS. H. POTTER & CO., It Superior st., stocks and mining it
		broker.	The American Common Com	vestments.
Minneapolis	Hennepin 	J. Russell Jones, 427 Nicollet av., Room 7. Minneapolis Mining & Stock Ex-	Fostoria Seneca	C. C. & E. J. BARND, S. E. co Wood and Crocker sts., broker organizers and promoters mine factories, etc.
**		change.  FRANKLIN PAINE & CO., 44 Chamber of Commerce, brokers.	PENN	SYLVANIA
	MI	Correspondence solicited.	Philadelphia.Philadelphia	J. Wesley Pullman, 238 S. Third st broker.
Kansas City	Jackson	P. W. KLINE & CO., 400 Keith Bldg., brokers.	Pittsburgh. Allegheny	C. M. CARRISON, 615 and 6 Lewis Block, copper ores, matte iron and steel. (See adv., page 10
	. "	J. M. O'Blenis, Room 420 American Bank Bldg.	· · · · · · · · · · · · · · · · · · ·	ROBINSON & ORR, 419 Wood Stockers, iron mining stocks.
	210	)NTANA	SOUTH	CARÔLINA
Butte.	Silver Bow	J. CHAUVIN, broker in mines and mining stock. (See adv., page 526.)	Charleston Charleston	Paul C. Trenholm, broker in pho phaterock, etc.

#### SOUTH DAKOTA

Deadwood . Lawrence John Baggaley, mining broker.

#### TENNESSEE

TOWN AND COUNTY

NAME

... Hamilton CEO. W. WARE, 103 W. Ninth st., broker; mineral properties strictly first-class. Chattanooga

#### TEXAS

El Paso.....

El Paso A. D. Groesbeck, 701 N. Stanton st., broker; purchasing agent El Paso Smelting Works,

#### UTAH

Salf Lake City ... Salf Lake John J. Cushing, Commercial Block,

J. C. DAVIS, 25 Central Block, P. O. Box 1074, mining stock broker and denler in securities of every description; dividend-paying stocks a specialty. Refer, with permission, to McCormick & Co., bankers.

JAMES A. POLLOCK, 77, 78 Com-mercial Block, bond and stock broker; mining investments.

Tonsey & Schen, 26, 29 Commercial Block, brokers. J. H. Watts, 47 W. Second South St., broker.

#### VIRGINIA

Fredericksburg

L. G. Johnson, mining broker.

.....Pulaski Edward Shelley, broker and mineral Newbern .

#### WASHINGTON

Durham. Scattle.

King Pacific Investment Co.

King J. M. & F. W. Wilmans, Room 620 Balley Bldg., brokers.

Spokane.

Spokane JOHN C. FISHER, Mining Ex-change, broker.

Snow & Armstrong, 406 Riverside av., brokers.

#### WISCONSIN

Town AND COUNTY

NAME

Milwankee ... Milwankee CASE & PECK, 19 New Insurance Bldg., brokers; Lake Superior mining properties, unineral and timber lands.

#### NEW BRUNSWICK

Millerton Northumberland John J. Miller, mine dealer

#### ONTARIO

Rat Portage . . . . Algoma John Kerr Bryden, broker.

Algonia Jas. B. Hammond, Cedar st., dealer in nickel properties.

Toronto York H. A. Hilyard, tog King st. W., broker.

T. D. LEDYARD, 57 Colborne st., Room 3, dealer in mines and min-eral lands. Specialities, asbestos, mica, bessemer iron ores, nickel; English companies organized. Cor-respondence solicited.

C. V. M. Temple, 47 St. George st.

#### OFFBEC

Montreal

Montreal O. M. Harris, 209, 244 Commissioners st., broker,

#### MEXICO

Mexico

Mexico Feo-Javier de L'Ertiz, 14 Calle de Cadena, broker.

#### ENGLAND

London.

Middlesex JULIUS MATTON, 7-8t. Mary axe, E. C., metal increhant and agent for Mechernich Lead Mining Co., Ger-many, Bensberg Zine Mining Co., Bergellus, Germany, Open for other agencies in metal.



#### MINING AND COMMERCIAL ATTORNEYS

ΔΙ	ABAMA	TOWN AND COUNTY	NAME
TOWN AND COUNTY	NAME	Nevada City Nevada (Continued.)	Fred Searls, opp court-house, attorney at law,
Edwardsville, Clebarne	J. B. Merrill, attorney.	OaklandAlameda	Geo, E. Degolia, 957 Broadway, attorney at law.
Fort Payne De Kalb	Norfleet & Carey, attorneys.	PlacervilleEl Dorado	Irwin & Irwin, attorneys at law.
Mobile Mobile	PILLANS, TORREY & HANAW, 74 st. Francis st., Rooms 5 and 6.		Chas, A. Swisler, attorney at law.
	attorneys at law; practice in all the courts, state and federal. Refer-	San Bernardino	Harris & Gregg, attorneys at law.
	ence: Any bank or reputable busi- ness house in Mobile. Compilers	San Bernardino	other & Doubles Advanced by the
	A 80, Frances 80, 1000in 5 and 6, attorneys at law, practice in all the courts, state and federal. Refer- ence: Any bank or reputable busi- ness house in Mobile. Compilers of Alabama Laws for The Mining Directory. (See eard, page 18.)	San Francisco	Chas, J. Perkins, attorney at law.  Dorn & Dorn, 306 Pine st., attorneys
,	LASKA	San Francisco	and counselors at law.
F.	LASKA		CEO, A. JOHNSON, 14 Sansome St., attorney and comisclor at Taw. (Ex-
Juncan -	JOHN C. HEID, attorney at law. Suc- eral attention given mining and com- mercial laws; titles examined; do a general practice.		CEO, A. JOHNSON, 44 sansonie st., attorney and comiscior at law. (Ex- attorney-general of California.) Special attention given to the law of corporations, commercial law, collections and settlements of dece- dents' estates. References: The
0.00	J. F. MALONY, afformey at law; mining titles examined and reported upon.		Special attention given to the law of corporations, commercial law, collections and settlements of dece- dents' estates. References: The Mining Terrory National Legal Terrory and Snow, Church & Co. New York City; Sharp & Alleman, Philadelphia, Pa., Shryer, Rarfiett & Co., Hallmore, Md., J. A. Graft Co., Hallmore, Md., J. A. Graft ern Collection Agency, Milwanker, Wis; Hon, John P., Dunn, excon- troller of state, San Francisco, and
Al	RIZONA		New York City: Sharp & Alleman, Philadelphia, Pa., Shriver, Bartlett & Co., Baltimore, Md., J. A. Graft
Florence Plual	James Reymert jr., attorney at law.		& Co., Cinclinuati, Olno, Northwest- ern Collection Agency, Milwankee,
Tombstone. Cochise	William Herring, Toughmut st., near Fourth, attorney and counselor at law.		Wis.; Hon. dolni P. Dunn, ex-con- troller of state, San Figuresseo, and Hon. E. P. Colgan, controller of state, Sacramento, Cal. (See card.)
"Tueson Pima	FRANCIS J. HENEY, attorney at law, mining and commercial busi- ness given special attention, col- lections promptly attended to. Com- piler of laws of Arizona for The Min- ing Directory. (See card, page 18.)	COL	page 18.)
\ D	KANSAS		
-7.11	IVAINO.AD		Z. T. Brown, attorney at law.
,	R. T. Powell, lawyer.		Rucker, Spurgeon & Cassidy, P. O. Box 517, attorneys.
Little Rock - Pulaski	C. B. MOORE, attorney at law, Compiler of Arkamas law for The Wining Directory, Commercial and mining business a specialty; collec-	*	Thomas & Thomas, P. O. Box 463, law- yers.
	tions receive prompt attention. (See eard, page 18.)	Aspen Pitkin	Charles W. Franklin, attorney at law.
			Aaron Heims, 5, 6 and 7 Hyman Block, attorney at law.
CAL	AFORNIA	Boulder Boulder	Gny D. Duncan, Room 5 National State Bank Block, counselor at law.
Auburn - Placer	Benj, P. Tabor, Rooms 5,6 and 7 Stevens Block, mining attorney.	Buena VistaChaffee	G. K. Hartenstein, attorney at law.
6.6	F. P. Tuttle, attorney at law.	Central City .Gilpin	Chase Withrow, attorney at law.
Crescent City Del Norte	L.F. COOPER, 620 H st., attorney; lands, mines and redwood timber.		Colburn & Dudley, N. Nevada av., attorneys.
Grass Valley, Nevada	A. Burrows, mining lawyer and no- tary public.	" " "	Harris & Kinsley, 2 and 3 Midland Block, attorneys at law,
	Kitts & Bowman, Main $\mathfrak{st}_\alpha$ attorneys and notaries.		J. E. McINTYRE, 104 E. Pike's Peak av., attorney at law; mining, com- mercial and realty law.
Los Angeles Los Angeles	Geo. B. Griffin, 714 Downey av., attorney and counselor at law.		Charles H. Adams, attorney at law.
			W. G. Alexander, lawyer.
	WELLS, MONROE & LEE, Rooms 11 to 18 Baker Block, attorneys for Union Pacific Ry., National Bank of California, etc., commercial and whiting hear, rapid block		C. J. S. Hoover, attorney at law.
Marysyille Vulu	mining tan specialities.	DenverArapahoe	BARTELS & BLOOD, 504-508 Peo- ple's Bank Bldg, attorneys at law; mining business and collections re-
	J. H. Craddock, Ellis Block, attorney and counselor at law.	**	ceive prompt attention. Willis B. Herr, 509 and 510 Equitable
Nevada CityNevada	Thomas S. Ford, attorney at law.		Bldg., attorney at law.

TOWN AND COUNTY	NAME	FI	ORIDA
Denver Arapahoe	MANLY & MOORE, 815-817 Ernest	TOWN AND COUNTY	Name
(Continued.)	MANLY & MOORE, 815-817 Ernest & Cranmer Bilk., attorneys at law: real estate, mining and corporation law; counsel for numerous savings, loan, investment and mining com- panies; collection department.		John L. Albritton, cor. Main st. an Fort Meade av., attorney at law
	panies; collection department. Depositions carefully taken. Compilers of Colorado law for The Mining Directory. (See eard, page	Gainsville Alachua	HORATIO DAVIS, attorney at law practices in all the courts, state an federal; special attention give corporation and mining laws
	W. E. Richards, 615 Ernest & Cranmer Bik., attorney at law,		prompt returns on collections. Re- erence, First National Bank of Gainsville. (See card, page 18.)
	A. W. RUCKER, 501 and 502 Mining Exchange Bldg., attorney at law; practice in mining law exclusively.	Jacksonville Duval	A. W. Cockrell & Son, 29 E. Forsyt st., attorneys at law.
**	S. D. Walling, Tabor Btk., lawyer.	Leesburg Lake	J. B. Gaines, Main st., attorney.
	T. J. Drum, Bank Bldg., mining attorney.	Ocala Marion	John H.Burchell, Merchants' Nationa Bank Bldg., attorney at law.
Durango La Plata	M. J. McCloskey, attorney at law.		
Fort Collins Larimer	Frank J. Annis, attorney at law.	Cil	EORGIA
	J. I. Sampson, mining attorney.	Blairsville . Union	J. A. Butt, attorney at law.
	C. T. Roberts, mining attorney.		Copeland & Jackson, Main st., a
	John T. Shumate, 1004 Bennet av., attorney at law.		torneys.
	Alexander Gullett, attorney at law.	1	DAHO
	Dexter T. Sapp, mining lawyer.		=======================================
	Sherman & Twitchell, mining and general attorneys.	Salmon City Lemhi	Ralph P. Quarles, attorney at law.
New CastleGarfield	Arthur L. Beardsley, mining and com- mercial attorney.	II.	LINOIS
Ouray Ouray	Story & Stevens, attorneys at law.	Chicago Cook	DALL & DADDETT Suite 1501-151
Pueblo Pueblo	John A. Collins, 321½ Santa Fe av., attorney at law.	Cincago Cook	BALL & BARRETT, Suite 1501-150 Unity Bldg., 79 Dearborn st., atto- neys and counselors at law.
"	J. E. Rizer, Graham-Wescott Blk., attorney at law.		DAYTON, POOLE & BROWN, 2 Dearborn st., patent solicitors. (Se card, page 12.)
	A. R. Brown, attorney		
"	S. N. Hoover, attorney at law.		ROSS & TODD, 185 Dearborn st Rooms 13 and 14, attorneys an counselors at law. (See eard, pag
*****	Chas. K. Phillips, mining and com- mercial attorney.		529.)
Silver Cliff Custer	McNeely & Watkins, attorneys,		8t. John & Merriam, 79 Dearborn st 1001-1004 Unity Bldg., attorneys an counselors.
Silverton San Juan	C. M. Frazier, cor. Twelfth and Ruse sts., attorney.		
Telluride San Mignel	W. H. Gabbert, attorney at law,		at law. Especial attention give
Walsenburg . Huerfano	R. R. Ross, attorney at law.		CLARK VARNUM, Suite 413 Chan her of Commerce Bidge, attorne at law. Especial attention give to important cases and non-re- dent business. Has as permaner correspondents and associat counsel a leading member of the transport of the control of the con- trol of the
CON	NECTICUT	DanvilleVermilion	Edwin Winter, 414 Franklin st., a torney at law.
Bristol	EPAPHRODITUS PECK, 130 Main	Joliet Will	Higgins & Akin, Room 21 Cour House, attorneys at law.
	<b>EPAPHRODITUS PECK,</b> 130 Main st., No. 2 Masonic Temple, attorney at law, Compiler of Connecticut law for The Mining Directory. References:	SpringfieldSangamon	Patton & Hamilton, 419 and 421 l Adams st., attorneys at law.
	Bristof Savings Bank, Bristof National Bank, Bristof Copper & Silver Mining Co. (See card, page 18.)		AZAIG7
		Williamsport Warren	W. P. Rhodes, attorney at law.
			IOWA
DISTRICT	OF COLUMBIA	Centerville Appanoose	T. M. Fee, attorney at law.
			W. G. Harvison, Clapp Block, atto
Washington,,D. C.	STORY B. LADD, Loan & Trust Bldg., attorney; American and for- eign patents.		ney at law.  J. F. & Wm. R. Lacey, attorneys.

	THE MINING DIRECTORY—ATTORNEYS. 519				
TOWN AND COUNTY	Name	TOWN AND COUNTY	NAME		
What CheerKeokuk	C. M. BROWN, 1 and 2 Savings Bank Block, attorney at law. Member of American Attorneys' Association. Compiler of Iowa laws for The Mining Directory. Mining and commercial law a specialty; collections promptly at- tended to. (See card, page 18.)	Pittsfield Berkshire	Frederick L. Greene, eor, Main and Federal sts., attorney at law. Pingree Dawes jr. & Burke, 26 Bank row, attorneys at law.		
K	ANSAS	Jackson Jackson	Wilson & Cobb, attorneys at law.		
	Fuller & Randolph (see Pittsburg). Whiteside & Gleason, 24-8, Mam-8t., attorneys at law.	Norway Dickinson	R. C. FLANNICAN, attorney at law. Computer of laws of Michigan for The Mining Directory. Corporation, mining and commer- cial law a specialty.		
	Jean F. Webb, mining attorney.				
	Geo, S. Redd, attorney at law.	MIL	NNESOTA		
Pittsburg Crawford Office also at Girard.	FULLER & RANDOLPH, speedal attention given mining and commercial littuation and collections. Resident attorneys  A., T. & S. F. R. R. C. & P. Coal & Mining Co. St. L. & S. F. R. R. First National Bank, Girard, Pittsburg & Midway Coal Co. Pranklin Coal Co.	Duluth 8t. Louis	A. E. McMANUS, Room 203 Palla- dio Bilgs, attorney at law; mining and commercial law a specialty, collections promptly attended to, Reference; any bank or business has business in Dulath, secenard, page 528, 1666. W. Mann, 214 Chamber of Com-		
	Franklin Coal Co. (See card, page 19.)		merce, attorney at law.		
Pleasauton Linn	W. W. McCullough, attorney at law.		Herbert R. Spencer, 248 W. Superior st., attorney at law.		
KE	NTUCKY		Tinkham & Tinkham, 105 and 107 West Superior st., attorneys at law.		
Louisville, "Jefferson	W. O. HARRIS, 30 and 31 Bull, Block,	Manneapolis , Hennepin	Chas, B. Holmes, 615 Guaranty Loan Bldg., attorney.		
	attorney at law date Judge of Louis- ville law and county court. Prompt attention given all commercial busi- ness intrusted to my care. (See eard, page 19.)	St. Paul Ramsey	William Foulke, 25 and 26 National German-American Bank, attorney.		
Whitesburg Letcher	D. D. Fields, attorney at law.	MIE	881881191		
LO	UISIANA	Jackson , Hinds	BRAME & ALEXANDER, attorneys		
	FRANK L. RICHARDSON, 7 Camp St., Morris Bidg., autoriey at law. Commercial infigation and collec- tions a specialty. (See card, p. 19.)		BRAME & ALEXANDER, attorneys at law, reporters of the supreme court of Mississhpil, and attorneys for the Capital State Bank. Special attention given all commercial business untrusted to us. Prompt returns on collections. (See eard, page 528.)		
MAINE		MISSOURI			
Machias Washington	C. B. DONWORTH, Donworth Blk., Main st., attorney and Counselor at	Ash Grove Greene	Harvey Murray, attorney at law.		
	ETV	Anrora	H. H. Bloss, attorney at law.		
	Commercial litigation a specialty, Collections receive prompt atten- tion. (See card, page 19.)		tarr McNatt, cor. Ohye and Madison av., attorney at law.		
Portland Cumberland	Frank & Larrabee, 185 Middle St., at-	Cartervillelasper	Joseph Fountain, E. Main st., attorney at law.		
	torneys and counselors at law.	Carthage Jasper	11. T. Harrison, 808 Clinton st., attor- ney at law.		
MA	RYLAND	**	Harrison & Harrison, S. E. corner of Square, attorneys.		
Baltimore Baltimore	elliott & Hoffman, Daily Record Bidg., cor. Fayette and St. Paul Sts., attorneys at law.	Fredericktown .Madison	B. B. Cahoon, attorney at law.		
	sts., attorneys at law.  Special attention given commercial, real estate and mining litigation. (See eard, page 19.)	Joplin Jasper	JAMES P. MEAD, N. W. cor. Third and Mannests., attorney at law and notary public.		
MASS	ACHUSETTS	*	Chas, H. Montgomery, 317 Main st., attorney.		
		· · ·	A. E. Spencer, Berz Block, attorney at law.		
Boston	HERBERT L. BAKER, John Han- cock Bidg., 178 Devonshire st. and 35 Federal st., attorney at law; gives special attention to commercial and mining litigation. (See card, page 19.)	Kansas City Jackson	Thos. C. Brown, 818-820 New York Life Bldg., attorney.		
	WALTER L. CHURCH, 9 Franklin		Haff & Van Valkenburgh, Rooms 829, 830 and 831 New York Life Insur- ance Bldg., attorneys.		
	WALTER L. CHURCH, 9 Franklin st., nunngand commercial attorney, six years' practical experience in Colorado and Nevada mines.	**	Richard H. Stewart, 706 Wall st., attorney,		

TOWN AND COUNTY	NAME	NEVADA
Kansas City Jackson	TRABER & McNEIL, Rooms 307.	TOWN AND COUNTY NAME
(Continued.)	TRABER & MCNEIL, Rooms 307, 308 and 309 Long Bros, Bilge, attor- neys at law (notary in office). Spe- cal attention given to mining and all kinds of commercial httgation. Prompt returns assured on collec- tions. (See curd. page 528.)	Battle Mountain Lander JAMES F. DENNIS, attorney at law.  Elko E. L. Farrington, attorney at law.
St. Joseph Buchanan	JOHN DONIPHAN, 413 Francis st., attorney and mining law; prest. St. Joseph & Cripple Creek Mining Co., and Dauphin Tin Co.; praetice in state and United States courts.	Ely
SpringfieldGreene	John W. Jump, Rooms 2 and 3 Green County Bank Bldg., attorney.	of mining companies; concertons promptly attended to, Compiler of Nevada laws for The Mining Directory, Use and must See
Steelville Crawford	E. A. Pinnell, Main st., opp. courf- house, attorney, notary public and abstractor.	Virginia City Storey W. E. F. DEAL, Bank of California Bldg., attorney at law. Twenty-
Webb City Jasper West Plams Howell	Lucius L. Wittich, attorney. L. B. Harris, attorney.	Virginia City Storey W. E. F. DEAL, Bank of California Bldg, attorney at law. Twenty- nine years' experience in mining illigation and mining titles. Refer- ences, Bank of California and Nevada Bank of San Francisco.
	)NTANA	"
	O. F. Goddard, attorney and counselor at law.	NEW HAMPSHIRE
	Luce & Luce, commercial attorneys.	Nashna Hillsboro H. A. CUTTER, 76 Main st., attorney at law (commissioner for
Butte	E. H. Irvine, Son & Co., 21 E. Granite st., attorneys. F. T. McBride, 122 N. Main St., attor-	Nashna Hillsboro H. A. CUTTER, 76 Main st., attorney at law (commissioner for Missachusetts); commercial and real estate law a specialty. Practice in all courts. Collections receive prompt attention. (See card, page 629.)
* **	ney at law.	page 529.)
	Miller & Peavey, mining attorneys.	NEW JERSEY
	H. R. Whitehill, attorney at law. Emmett Callahan, 150 Main st., aftor-	
	ney at law. Cooper & Pigott, 83 and 84 Tod Bldg.,	Trenton. Mercer LOWTHORP & OLIPHANT, 132 E. State st., attorneys and conserved at law; corporation and commercial law; practice in state and federal courts. (See eard, page 529.)
	attorneys at law. H. A. Day, Dunn Block, Central av., numing and commercial attorney.	federal courts. (See card, page 529.)
	mining and commercial attorney.  8. A. Balliet, 18 <sup>1</sup> <sub>2</sub> S. Main st., attorney.	NEW MEXICO
	Alex, C. Botkin, 109, 119 and 111 Gran- ite Block, mining and commercial attorney.	AlbuquerqueBernalillo Warren, Fergusson & Brarer, First National Bank Bldg., attorneys.
		Cerrillos Santa Fe Chas, F. Easley, attorney at law.
	DAVID B. CARPENTER, Room to Bailey Block, attoriney at law; gen- eral practice in corporation, mining, real estate and commercial law. Special attention giving to indimg litigation, collections, etc. (Seccard, page 528.)	Deming Grant S. M. ASHENFELTER, Wormser Block, Silver av., attorney at law, special attention given to mining, commercial and real estate litigation.
**	J. A. Carter, aftorney at law.	Hillsboro Sierra A. B. Elliott, attorney at law.
11	H. R. Cansly, Granite Block, attorney at law.	" F. W. Parker, attorney at law.
	MILES J. CAVANAUCH, Room 9 Bailey Block, mining and commercial attorney.	Las Cruces. Dona Ana S. B. Newcomb, attorney at law.
	John B. Clayberg, cor. Main and Ed-	Silver City Grant JAMES S. FIELDER, attorney at law. Reference, The Silver City National Bank. Mining law a specialty.
14	wards, attorney at law.  J. M. Clements, attorney at law.	" " H. L. Pickett, attorney at law.
TownsendMeagher	J. E. Kanouse, Broadway, attorney.	" John M. Wright, attorney at law.
White Sulphur Springs Meagher	Thompson & Maddox, attorneys at law.	SocorroSocorro Cheves & Dougherty, Abryta Block, attorneys at law.
27.13	DIA CHE C	" " James G. Fitch, attorney at law.
	BRASKA	" H. B. Hamilton, attorney at law.
Lincoln. Lancaster	STEVENS, LOVE & COCHRAN,	White OaksLincoln B. H. Dye, attorney at law.
	general law, equity and corporation practice, with special attention to commercial business. Refer to any	NEW YORK
	& Co., Chicago; Hibbard, Spencer,	GouverneurSt. Lawrence Conger & Orvis, attorneys at law.
	STEVENS, LOVE & COCHRAN, Newman Block, attorneys at law; general law, equity and corporation practice, with special attention to commercial business. Refer to any of the commercial business. Refer to any of the commercial business, and the commercial building & Loan Assin, Kansas City, Onaha, Oli & Paint Co., Onaha, First-class reference will be furnished in any large city in the United States, (See card, page 528.)	Granville Washington Jurden E. Seeley, Main st., attorney and counselor at law.
		New York New York J. F. Crosby, 54 Exchange pl., attorney at law.

	THE MINING DIRECTORY—ATTORNEYS. 521			
TOWN AND COUNTY	Name	O.	REGON	
New YorkNew York (Continued.)	HASTINGS & CLEASON, 265 Broadway, attorneys at law. Commercial and mining litigation	TOWN AND COUNTY	NAME	
(Oshtimusti)	specialties, Prompt attention given collec-	Baker City Baker	Frank L. Moore, attorney at law.	
	tions. (See card, page 529.)	**	L. M. Robinson, Main st., mining attorney,	
""	A. P. Smith, 261 Broadway, attorney at law.	Grant's Pass - "Josephine	ROBERT C. SMITH, First National Bank Bldg., attorney at law; mining and commercial litigation a spe- cialty; collections promptly attended to. (See card, page 530.)	
NOIL I.E.	CAROLINA	JacksonvilleJackson	C. W. Kahler, California st., attorney at law.	
	Edwin D. Steele, attorney at law.	Portland Vultnomah	G.O. Holman, 4 Washington st., Wash-	
	M. Silver, attorney at law.	44	ington Bldg., attorney at law.  Zera Snow, Concord Bldg., attorney	
Salisbury Rowan	R. Lee Wright, Legal row, attorney at law.		at law.	
	Lee S. Overman, attorney at law.	PENN	SYLVANIA	
Webster,Jackson	WALTER E. MOORE, attorney at law; prompt returns on collections;	AllentownLehigh	Samuel J. Kistler, attorney at law.	
	mining and commercial law a spe- cialty. (See card, page 529.		John M. Reynolds, attorney at law.	
		Bethlehem, Northampton	J. B. Kemerer, Globe Bldg., Main st., attorney at law and notary public.	
NORT	H DAKOTA	Clearfield	Usear Mitchell, Market st., attorney at law.	
Fargo Cass	SPALDING & PHELPS, attorneys and counselors at law, practice in all the courts state and federal.	Easton. Northampton	N. D. Chase, 57 Centre Square, attorney at law.	
	all the courts, state and federal; commercial and real estate cases a specialty; collections promptly at tended to. (See card, page 529.)	Mauch Chunk	Freyman & Heydt, 76 Broadway, attorneys at law.	
	ОШО	Pittsburg .Allegheny	HUDSON & McCUE, 100 Diamond st., attorneys at law; coffections, corporation law, mining, etc.	
			Chas. G. McIlyain, 403 Grant st., attorney at law.	
	Byron Stilwell, 92 Main st., attorney at law.		M. H. Stevenson, 470 Fourth av., attorney at law.	
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			Erneutrant & Ruhl, 534 Washington st., attorneys at law.	
			Chas, L. Hawley, 211 Wyoming av., attorney at law.	
	Bank, the Merchants' Banking & Storage Co., the Euclid Avenue Na-		Charles H. Welles, 118 Wyoming av., attorney at law.	
	tional Bank and the Cleveland Na- tional Bank, Special references whenever desired,	Uniontown Fayette	Boyd & Umbel, 42 E. Main st., attor- ney at law.	
	in omee. (See card, page 529.)	**	GEORGE M. HOSACK, 42 E. Main st., attorney at law, practice in all courts.	
	FINCKEL & FINCKEL, Room 61, Westey Blk., attorneys: patents and patent litigation; special attention given to mining inventions.	Wilkes Barre. Luzerne	SIDNEY R. MINER, 22 S. Franklin St. attorney at law and notary pub- lic. Prompt attention given to all legal business. Titles examined, collections made, Reference, Wy- oming National Bank Wilkes Barre.	
	CHAS. C. BARND, S. E. eor. Wood and trocker sts., attorney; specialty, patents and royalties.		collections made. Reference, Wy- oming National Bank, Wilkes Barre, (See card, page 530.)	
	N. B. Billingsley, attorney at law. Conrad Hune, E. Walnut st., attorney		Henry W. Palmer, 9 Franklin st., attorney.	
	at law.	SOUTH	CAROLINA	

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	page .50.)	Christiansburg Montgomery	PHLECAR & JOHNSON, attorneys at law; commercial and mining law a specialty; collections promptly at- tended to. (See card, page 34.)
Hermosa	Moody & Washabaugh, attorneys at law.  C. J. Patton, tt Vilas st., attorney.	Fincastle, . Botetourt	C. H. Vines, commercial and mining attorney.
	Loomis S. Cull, Chicago av., attorney at law.	Fredericksburg Spottsylvania	
Rapid CityPennington	Wood & Buell, Rooms 4, 5 and 6 Lakota Block, mining attorneys.		J. C. JOHNSON, attorney at law. References. The Bank of Fred- er. eksburg: American Exchange National Bank. New York. Will exam.ne and report on mineral properties and tities in Virginia.
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Centreville Hickman	W. P. Clarke, attorney at law.	Richmond Henrico	
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Nashville . Davidson	BURCH & WALLER, Rooms 31- 33 Coles Bldg., attorneys at law; practice in all the courts, state and		card, page 531.)
	federal; commercial litigation a specialty. Compilers of Temessee laws for The Mining Directory. (See card, page 530.)	WAS	HINGTON
	SMITH & DICKINSON, 23012 N. Cherry st., attorneys and connselors at law; do a general practice.		Geo. M. Popham, attorney at law: collections.
Rogersville	ors at law; do a general practice. Smith & Chestnutt, attorneys at law.		N. D. WALLING, attorney at law: mining law a specialty.
		Fairhaven Whatcom	Thomas G. Newman, Mason Block, attorney and counselor at law.
П	EX78	New Whatcom, Whatcom	Black & Learning, cor. Elk and Holly sts., attorneys at law.
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	N. B. BENDY, 212 El Paso st., attorney at law; practices in all courts; special attention given to land and mining law; negotiates mines and lands in Teyas, New Mexico, Arizona and Republic of Mexico; titles to mines and lands examined; mining charters obtained for corporations. (See card, page 539.)	· »	JONES, VOORHEES & STE- PHENS, Hyde Block, attorneys at law, practice in all the courts; special attention given to mining and commercial business; collec- tions promptly attended to, (See card, page 651.)
	J. F. Crosby, attorney at law.		and commercial business; collec- tions promptly attended to, (See
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	UTAH	n «	Philip Stanford, 19 and 20 First Na- tional Bank Bldg., attorney.
		Tacone Pierce	LEO & JORDAN, Rooms 200 and 210 National Bank of Commerce Bldg, attorneys; practice in all the courts. Reference, Columbia Na- tional Bank, Tacoma. (See card,
ran Lake vity. San take	BOOTH, LEE & CRAY, 63-65 Com- mercial Block, mining corporation, insurance and connucreial litiga- tion; will practice in all courts, and		page oot.)
	pisurance and commercial fliga- tion; will practice in all courts, and before the United States land-office and department of the interior; collections promptly attended to, Refer to American National Bank, Commercial National Bank, Petro Mining Co., Salt Lake City, Utnh, Other references furnished on ap- ulication. (See earl, page 530.)		DR. WILLIS E. EVERETT, 1318 E st. South, mining lawyer.
	Refer to American National Bank, Commercial National Bank, Petro	" "	J. F. Ramage, 1314 <sup>1</sup> 2 Pacific av., mining attorney.
	Mining Co., Salt Lake City, Utah, Other references furnished on ap- plication. (See card, page 530.)	Whateom Whateom	J. C. McFadden, Holly st., attorney at law.
6	Grant H. Smith, 15 Second South st., mining lawyer.	WEST	VIRGINIA
	D. H. Wenger, 21 and 22 Central Block, mining attorney.	Parkersburg Wood	MERRICK & SMITH, attorneys at
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Burlington,Chittenden	J. W. RUSSELL, attorney at law: special attention given commercial htigation and collections. (See card, page 531.)		htigation and contested claims throughout West Virginia a spe- cialty. References, Second National Bank and Parkersburg National Bank, Parkersburg, W. Va. (See card, page 221)
	Bromley & Clark, attorneys at law.		Parkersburg, W. Va. (See card, page 531.)

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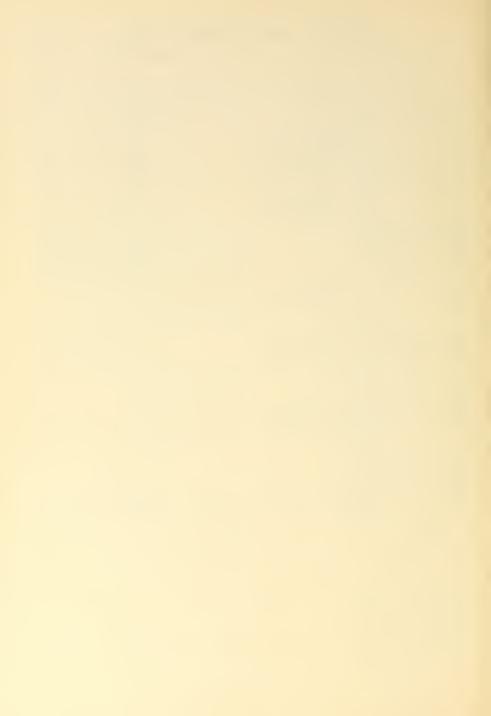
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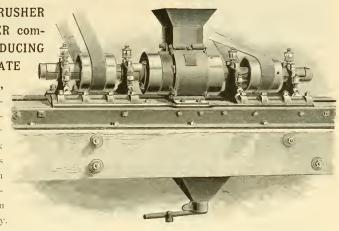


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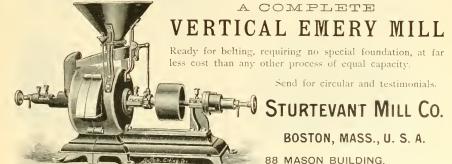


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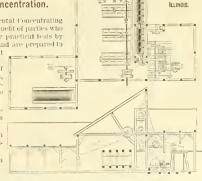
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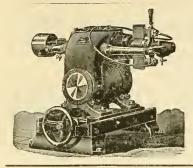
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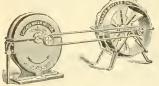
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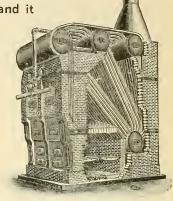
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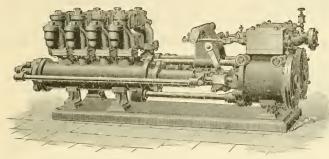
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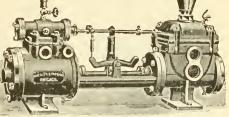


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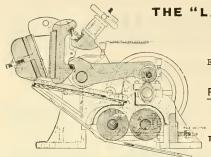


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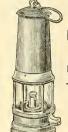


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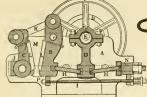
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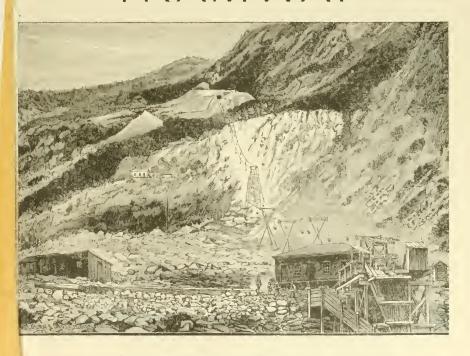
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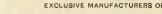
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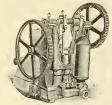
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